

## 1 Identification

### · Product identifier

· **Product Name:** VOC Mix (Non-Gases)

· **Part Name:** ECS-A-033

### · Restrictions

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

· **Application of the substance / the mixture** Certified Reference Material

### · Details of the supplier of the safety data sheet

#### · **Manufacturer/Supplier:**

Spex CertiPrep, LLC.  
203 Norcross Ave, Metuchen,  
NJ 08840 USA  
732-549-7144  
USMet-CRMSales@antylia.com

· **Information department:** product safety department

#### · **Emergency telephone number:**

Emergency Phone Number (24 hours)  
CHEMTREC (800-424-9300)  
Outside US: 703-527-3887

## 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Toxic to Reproduction 1A

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 1

H370 Causes damage to the central nervous system and the visual organs.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

### · Label elements

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

### · Hazard pictograms



GHS02



GHS06



GHS07



GHS08

### · Signal word Danger

### · Hazard-determining components of labeling:

methanol  
benzene  
1,2-dibromo-3-chloropropane  
carbon tetrachloride

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 1)

(Z)-1,3-dichloropropene

**Hazard statements**

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H370 Causes damage to the central nervous system and the visual organs.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



**HMIS-ratings (scale 0 - 4)**



**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:**

87-61-6 1,2,3-trichlorobenzene

87-68-3 hexachlorobuta-1,3-diene

120-82-1 1,2,4-trichlorobenzene

**vPvB:**

87-68-3 hexachlorobuta-1,3-diene

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

|         |                       |       |
|---------|-----------------------|-------|
| 67-56-1 | methanol              | 89.2% |
| 56-23-5 | carbon tetrachloride  | 0.2%  |
| 67-66-3 | chloroform            | 0.2%  |
| 71-43-2 | benzene               | 0.2%  |
| 71-55-6 | 1,1,1-trichloroethane | 0.2%  |
| 75-09-2 | dichloromethane       | 0.2%  |
| 75-25-2 | bromoform             | 0.2%  |
| 75-27-4 | bromodichloromethane  | 0.2%  |
| 75-35-4 | 1,1-dichloroethylene  | 0.2%  |
| 78-87-5 | propylene dichloride  | 0.2%  |
| 79-00-5 | 1,1,2-trichloroethane | 0.2%  |

(Contd. on page 3)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 2)

|            |                             |      |
|------------|-----------------------------|------|
| 79-01-6    | trichloroethylene           | 0.2% |
| 79-34-5    | 1,1,2,2-tetrachloroethane   | 0.2% |
| 87-61-6    | 1,2,3-trichlorobenzene      | 0.2% |
| 87-68-3    | hexachlorobuta-1,3-diene    | 0.2% |
| 91-20-3    | naphthalene                 | 0.2% |
| 96-12-8    | 1,2-dibromo-3-chloropropane | 0.2% |
| 96-18-4    | 1,2,3-trichloropropane      | 0.2% |
| 98-82-8    | isopropylbenzene            | 0.2% |
| 99-87-6    | p-cymene                    | 0.2% |
| 100-41-4   | ethylbenzene                | 0.2% |
| 100-42-5   | styrene                     | 0.2% |
| 106-46-7   | 1,4-dichlorobenzene         | 0.2% |
| 106-93-4   | 1,2-dibromoethane           | 0.2% |
| 107-06-2   | 1,2-dichloroethane          | 0.2% |
| 108-88-3   | toluene                     | 0.2% |
| 120-82-1   | 1,2,4-trichlorobenzene      | 0.2% |
| 124-48-1   | dibromochloromethane        | 0.2% |
| 127-18-4   | tetrachloroethylene         | 0.2% |
| 563-58-6   | 1,1-dichloropropene         | 0.2% |
| 630-20-6   | 1,1,1,2-Tetrachloroethane   | 0.2% |
| 10061-01-5 | (Z)-1,3-dichloropropene     | 0.2% |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.2% |

|                                                             |                        |      |
|-------------------------------------------------------------|------------------------|------|
| <b>Chemical identification of the substance/preparation</b> |                        |      |
| 74-95-3                                                     | dibromomethane         | 0.2% |
| 74-97-5                                                     | bromochloromethane     | 0.2% |
| 75-34-3                                                     | 1,1-dichloroethane     | 0.2% |
| 95-47-6                                                     | o-xylene               | 0.2% |
| 95-49-8                                                     | 2-chlorotoluene        | 0.2% |
| 95-50-1                                                     | 1,2-dichlorobenzene    | 0.2% |
| 95-63-6                                                     | 1,2,4-trimethylbenzene | 0.2% |
| 98-06-6                                                     | tert-butylbenzene      | 0.2% |
| 103-65-1                                                    | propylbenzene          | 0.2% |
| 104-51-8                                                    | butylbenzene           | 0.2% |
| 106-42-3                                                    | p-xylene               | 0.2% |
| 106-43-4                                                    | 4-chlorotoluene        | 0.2% |
| 108-38-3                                                    | m-xylene               | 0.2% |
| 108-67-8                                                    | mesitylene             | 0.2% |
| 108-86-1                                                    | bromobenzene           | 0.2% |
| 108-90-7                                                    | chlorobenzene          | 0.2% |
| 135-98-8                                                    | sec-butylbenzene       | 0.2% |
| 142-28-9                                                    | 1,3-dichloropropane    | 0.2% |
| 156-59-2                                                    | cis-dichloroethylene   | 0.2% |
| 156-60-5                                                    | trans-dichloroethylene | 0.2% |
| 541-73-1                                                    | 1,3-dichlorobenzene    | 0.2% |
| 594-20-7                                                    | 2,2-dichloropropane    | 0.2% |

#### 4 First-aid measures

##### Description of first aid measures

##### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

##### After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### After skin contact: Immediately wash with water and soap and rinse thoroughly.

##### After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 4)

Product Name: VOC Mix (Non-Gases)

(Contd. of page 3)

- **After swallowing:** Do not give anything to eat or drink - Do not induce vomiting
- **Information for Doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

### · PAC-I:

|          |                             |                       |
|----------|-----------------------------|-----------------------|
| 67-56-1  | methanol                    | 530 ppm               |
| 56-23-5  | carbon tetrachloride        | 1.2 ppm               |
| 67-66-3  | chloroform                  | 2 ppm                 |
| 71-43-2  | benzene                     | 52 ppm                |
| 71-55-6  | 1,1,1-trichloroethane       | 230 ppm               |
| 74-95-3  | dibromomethane              | 3 ppm                 |
| 74-97-5  | bromochloromethane          | 600 ppm               |
| 75-09-2  | dichloromethane             | 200 ppm               |
| 75-25-2  | bromoform                   | 1.5 ppm               |
| 75-27-4  | bromodichloromethane        | 1.3 mg/m <sup>3</sup> |
| 75-34-3  | 1,1-dichloroethane          | 300 ppm               |
| 75-35-4  | 1,1-dichloroethylene        | 45 ppm                |
| 78-87-5  | propylene dichloride        | 30 ppm                |
| 79-00-5  | 1,1,2-trichloroethane       | 30 ppm                |
| 79-01-6  | trichloroethylene           | 130 ppm               |
| 79-34-5  | 1,1,2,2-tetrachloroethane   | 3 ppm                 |
| 87-61-6  | 1,2,3-trichlorobenzene      | 15 mg/m <sup>3</sup>  |
| 87-68-3  | hexachlorobuta-1,3-diene    | 1 ppm                 |
| 91-20-3  | naphthalene                 | 15 ppm                |
| 95-49-8  | 2-chlorotoluene             | 75 ppm                |
| 95-50-1  | 1,2-dichlorobenzene         | 50 ppm                |
| 95-63-6  | 1,2,4-trimethylbenzene      | 140 ppm               |
| 96-12-8  | 1,2-dibromo-3-chloropropane | 0.003 ppm             |
| 96-18-4  | 1,2,3-trichloropropane      | 0.015 ppm             |
| 98-06-6  | tert-butylbenzene           | 1.7 ppm               |
| 98-82-8  | isopropylbenzene            | 50 ppm                |
| 99-87-6  | p-cymene                    | 120 mg/m <sup>3</sup> |
| 100-41-4 | ethylbenzene                | 33 ppm                |
| 100-42-5 | styrene                     | 20 ppm                |
| 103-65-1 | propylbenzene               | 3.7 ppm               |

(Contd. on page 5)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 4)

|                 |                             |                         |
|-----------------|-----------------------------|-------------------------|
| · <b>PAC-2:</b> |                             |                         |
| 67-56-1         | methanol                    | 2,100 ppm               |
| 56-23-5         | carbon tetrachloride        | 13 ppm                  |
| 67-66-3         | chloroform                  | 64 ppm                  |
| 71-43-2         | benzene                     | 800 ppm                 |
| 71-55-6         | 1,1,1-trichloroethane       | 600 ppm                 |
| 74-95-3         | dibromomethane              | 33 ppm                  |
| 74-97-5         | bromochloromethane          | 830 ppm                 |
| 75-09-2         | dichloromethane             | 560 ppm                 |
| 75-25-2         | bromoform                   | 6.8 ppm                 |
| 75-27-4         | bromodichloromethane        | 14 mg/m <sup>3</sup>    |
| 75-34-3         | 1,1-dichloroethane          | 670 ppm                 |
| 75-35-4         | 1,1-dichloroethylene        | 500 ppm                 |
| 78-87-5         | propylene dichloride        | 220 ppm                 |
| 79-00-5         | 1,1,2-trichloroethane       | 180 ppm                 |
| 79-01-6         | trichloroethylene           | 450 ppm                 |
| 79-34-5         | 1,1,2,2-tetrachloroethane   | 120 ppm                 |
| 87-61-6         | 1,2,3-trichlorobenzene      | 60 mg/m <sup>3</sup>    |
| 87-68-3         | hexachlorobuta-1,3-diene    | 3 ppm                   |
| 91-20-3         | naphthalene                 | 83 ppm                  |
| 95-49-8         | 2-chlorotoluene             | 310 ppm                 |
| 95-50-1         | 1,2-dichlorobenzene         | 170 ppm                 |
| 95-63-6         | 1,2,4-trimethylbenzene      | 360 ppm                 |
| 96-12-8         | 1,2-dibromo-3-chloropropane | 2.2 ppm                 |
| 96-18-4         | 1,2,3-trichloropropane      | 170 ppm                 |
| 98-06-6         | tert-butylbenzene           | 18 ppm                  |
| 98-82-8         | isopropylbenzene            | 300 ppm                 |
| 99-87-6         | p-cymene                    | 1,300 mg/m <sup>3</sup> |
| 100-41-4        | ethylbenzene                | 1100* ppm               |
| 100-42-5        | styrene                     | 130 ppm                 |
| 103-65-1        | propylbenzene               | 41 ppm                  |

|                 |                             |                       |
|-----------------|-----------------------------|-----------------------|
| · <b>PAC-3:</b> |                             |                       |
| 67-56-1         | methanol                    | 7200* ppm             |
| 56-23-5         | carbon tetrachloride        | 340 ppm               |
| 67-66-3         | chloroform                  | 3,200 ppm             |
| 71-43-2         | benzene                     | 4000* ppm             |
| 71-55-6         | 1,1,1-trichloroethane       | 4,200 ppm             |
| 74-95-3         | dibromomethane              | 200 ppm               |
| 74-97-5         | bromochloromethane          | 5,000 ppm             |
| 75-09-2         | dichloromethane             | 6,900 ppm             |
| 75-25-2         | bromoform                   | 41 ppm                |
| 75-27-4         | bromodichloromethane        | 85 mg/m <sup>3</sup>  |
| 75-34-3         | 1,1-dichloroethane          | 4,000 ppm             |
| 75-35-4         | 1,1-dichloroethylene        | 1,000 ppm             |
| 78-87-5         | propylene dichloride        | 2,000 ppm             |
| 79-00-5         | 1,1,2-trichloroethane       | 500 ppm               |
| 79-01-6         | trichloroethylene           | 3,800 ppm             |
| 79-34-5         | 1,1,2,2-tetrachloroethane   | 150 ppm               |
| 87-61-6         | 1,2,3-trichlorobenzene      | 360 mg/m <sup>3</sup> |
| 87-68-3         | hexachlorobuta-1,3-diene    | 10 ppm                |
| 91-20-3         | naphthalene                 | 500 ppm               |
| 95-49-8         | 2-chlorotoluene             | 1,800 ppm             |
| 95-50-1         | 1,2-dichlorobenzene         | 1,000 ppm             |
| 95-63-6         | 1,2,4-trimethylbenzene      | 480 ppm               |
| 96-12-8         | 1,2-dibromo-3-chloropropane | 4.3 ppm               |
| 96-18-4         | 1,2,3-trichloropropane      | 1,000 ppm             |

(Contd. on page 6)

**Product Name: VOC Mix (Non-Gases)**

(Contd. of page 5)

|          |                   |                         |
|----------|-------------------|-------------------------|
| 98-06-6  | tert-butylbenzene | 110 ppm                 |
| 98-82-8  | isopropylbenzene  | 730 ppm                 |
| 99-87-6  | p-cymene          | 1,900 mg/m <sup>3</sup> |
| 100-41-4 | ethylbenzene      | 1800* ppm               |
| 100-42-5 | styrene           | 1100* ppm               |
| 103-65-1 | propylbenzene     | 240 ppm                 |

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

|                                     |                                                                                                                                                      |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>67-56-1 methanol</b>             |                                                                                                                                                      |
| PEL                                 | Long-term value: 260 mg/m <sup>3</sup> , 200 ppm                                                                                                     |
| REL                                 | Short-term value: 325 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 260 mg/m <sup>3</sup> , 200 ppm<br>Skin                                        |
| TLV                                 | Short-term value: 250 ppm<br>Long-term value: 200 ppm<br>Skin; BEI                                                                                   |
| <b>56-23-5 carbon tetrachloride</b> |                                                                                                                                                      |
| PEL                                 | Long-term value: 10 ppm<br>Ceiling limit value: 25; 200* ppm<br>*5-min peak in any 4 hrs                                                             |
| REL                                 | Short-term value: 12.6* mg/m <sup>3</sup> , 2* ppm<br>*60-min; See Pocket Guide App. A                                                               |
| TLV                                 | Short-term value: 10 ppm<br>Long-term value: 5 ppm<br>Skin, A2                                                                                       |
| <b>67-66-3 chloroform</b>           |                                                                                                                                                      |
| PEL                                 | Ceiling limit value: 240 mg/m <sup>3</sup> , 50 ppm                                                                                                  |
| REL                                 | Short-term value: 9.78* mg/m <sup>3</sup> , 2* ppm<br>*60-min; See Pocket Guide App. A                                                               |
| TLV                                 | Long-term value: 10 ppm<br>A3                                                                                                                        |
| <b>71-43-2 benzene</b>              |                                                                                                                                                      |
| PEL                                 | Short-term value: 15* mg/m <sup>3</sup> , 5* ppm<br>Long-term value: 3* mg/m <sup>3</sup> , 1* ppm<br>*table Z-2 for exclusions in 29CFR1910.1028(d) |
| REL                                 | Short-term value: 1 ppm<br>Long-term value: 0.1 ppm<br>See Pocket Guide App. A                                                                       |

(Contd. on page 7)

Product Name: VOC Mix (Non-Gases)

(Contd. of page 6)

|                                          |                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------|
| TLV                                      | Short-term value: (2.5) NIC-0.1 ppm<br>Long-term value: (0.5) NIC-0.02 ppm<br>Skin; BEI, A1 |
| <b>71-55-6 1,1,1-trichloroethane</b>     |                                                                                             |
| PEL                                      | Long-term value: 1900 mg/m <sup>3</sup> , 350 ppm                                           |
| REL                                      | Ceiling limit value: 1900* mg/m <sup>3</sup> , 350* ppm<br>*15-min; See Pocket Guide App. C |
| TLV                                      | Short-term value: 450 ppm<br>Long-term value: 350 ppm<br>BEI, A4                            |
| <b>75-09-2 dichloromethane</b>           |                                                                                             |
| PEL                                      | Short-term value: 125 ppm<br>Long-term value: 25 ppm<br>see 29 CFR 1910.1052                |
| REL                                      | See Pocket Guide App. A                                                                     |
| TLV                                      | Long-term value: 50 ppm<br>BEI, A3                                                          |
| <b>75-25-2 bromoform</b>                 |                                                                                             |
| PEL                                      | Long-term value: 5 mg/m <sup>3</sup> , 0.5 ppm<br>Skin                                      |
| REL                                      | Long-term value: 5 mg/m <sup>3</sup> , 0.5 ppm<br>Skin                                      |
| TLV                                      | Long-term value: 0.5 ppm<br>A3                                                              |
| <b>75-35-4 1,1-dichloroethylene</b>      |                                                                                             |
| REL                                      | See Pocket Guide App. A                                                                     |
| TLV                                      | Long-term value: 5 ppm<br>A4                                                                |
| <b>78-87-5 propylene dichloride</b>      |                                                                                             |
| PEL                                      | Long-term value: 350 mg/m <sup>3</sup> , 75 ppm                                             |
| REL                                      | See Pocket Guide App. A                                                                     |
| TLV                                      | Long-term value: 10 ppm<br>DSEN, A4                                                         |
| <b>79-00-5 1,1,2-trichloroethane</b>     |                                                                                             |
| PEL                                      | Long-term value: 45 mg/m <sup>3</sup> , 10 ppm<br>Skin                                      |
| REL                                      | Long-term value: 45 mg/m <sup>3</sup> , 10 ppm<br>Skin; See Pocket Guide Apps. A and C      |
| TLV                                      | Long-term value: 10 ppm<br>Skin, A3                                                         |
| <b>79-01-6 trichloroethylene</b>         |                                                                                             |
| PEL                                      | Long-term value: 100 ppm<br>Ceiling limit value: 200; 300* ppm<br>*5-min peak in any 2 hrs  |
| REL                                      | See Pocket Guide Apps. A and C                                                              |
| TLV                                      | Short-term value: 25 ppm<br>Long-term value: 10 ppm<br>BEI, A2                              |
| <b>79-34-5 1,1,2,2-tetrachloroethane</b> |                                                                                             |
| PEL                                      | Long-term value: 35 mg/m <sup>3</sup> , 5 ppm<br>Skin                                       |
| REL                                      | Long-term value: 7 mg/m <sup>3</sup> , 1 ppm<br>Skin; See Pocket Guide Apps. A and C        |
| TLV                                      | Long-term value: 1 ppm<br>Skin, A3                                                          |
| <b>87-68-3 hexachlorobuta-1,3-diene</b>  |                                                                                             |
| REL                                      | Long-term value: 0.24 mg/m <sup>3</sup> , 0.02 ppm<br>Skin; See Pocket Guide App. A         |
| TLV                                      | Long-term value: 0.02 ppm<br>Skin, A3                                                       |

(Contd. on page 8)

Product Name: VOC Mix (Non-Gases)

(Contd. of page 7)

|                                            |                                                                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>91-20-3 naphthalene</b>                 |                                                                                                                                 |
| PEL                                        | Long-term value: 50 mg/m <sup>3</sup> , 10 ppm                                                                                  |
| REL                                        | Short-term value: 75 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 50 mg/m <sup>3</sup> , 10 ppm                               |
| TLV                                        | Long-term value: 10 ppm<br>Skin; BEI, A3                                                                                        |
| <b>96-12-8 1,2-dibromo-3-chloropropane</b> |                                                                                                                                 |
| PEL                                        | Long-term value: 0.001 ppm<br>see 29 CFR 1910.1044                                                                              |
| REL                                        | See Pocket Guide App. A                                                                                                         |
| <b>96-18-4 1,2,3-trichloropropane</b>      |                                                                                                                                 |
| PEL                                        | Long-term value: 300 mg/m <sup>3</sup> , 50 ppm                                                                                 |
| REL                                        | Long-term value: 60 mg/m <sup>3</sup> , 10 ppm<br>Skin, See Pocket Guide App. A                                                 |
| TLV                                        | Long-term value: 0.005 ppm<br>A2                                                                                                |
| <b>98-82-8 isopropylbenzene</b>            |                                                                                                                                 |
| PEL                                        | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin                                                                         |
| REL                                        | Long-term value: 245 mg/m <sup>3</sup> , 50 ppm<br>Skin                                                                         |
| TLV                                        | Long-term value: 5 ppm<br>A3                                                                                                    |
| <b>100-41-4 ethylbenzene</b>               |                                                                                                                                 |
| PEL                                        | Long-term value: 435 mg/m <sup>3</sup> , 100 ppm                                                                                |
| REL                                        | Short-term value: 545 mg/m <sup>3</sup> , 125 ppm<br>Long-term value: 435 mg/m <sup>3</sup> , 100 ppm                           |
| TLV                                        | Long-term value: 20 ppm<br>OTO, BEI, A3                                                                                         |
| <b>100-42-5 styrene</b>                    |                                                                                                                                 |
| PEL                                        | Long-term value: 100 ppm<br>Ceiling limit value: 200; 600* ppm<br>*5-min peak in any 3 hrs                                      |
| REL                                        | Short-term value: 425 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 215 mg/m <sup>3</sup> , 50 ppm                            |
| TLV                                        | Short-term value: 20 ppm<br>Long-term value: 10 ppm<br>BEI, OTO, A3                                                             |
| <b>106-46-7 1,4-dichlorobenzene</b>        |                                                                                                                                 |
| PEL                                        | Long-term value: 450 mg/m <sup>3</sup> , 75 ppm                                                                                 |
| REL                                        | See Pocket Guide App. A                                                                                                         |
| TLV                                        | Long-term value: 10 ppm<br>A3                                                                                                   |
| <b>106-93-4 1,2-dibromoethane</b>          |                                                                                                                                 |
| PEL                                        | Long-term value: 20 ppm<br>Ceiling limit value: 30; 50* ppm<br>*5-min peak per 8-hr shift                                       |
| REL                                        | Long-term value: 0.045 ppm<br>Ceiling limit value: 0.13* ppm<br>*15-min; See Pocket Guide App. A                                |
| TLV                                        | Skin, A3                                                                                                                        |
| <b>107-06-2 1,2-dichloroethane</b>         |                                                                                                                                 |
| PEL                                        | Long-term value: 50 ppm<br>Ceiling limit value: 100; 200* ppm<br>*5-min peak in any 3 hrs                                       |
| REL                                        | Short-term value: 8 mg/m <sup>3</sup> , 2 ppm<br>Long-term value: 4 mg/m <sup>3</sup> , 1 ppm<br>See Pocket Guide Apps. A and C |
| TLV                                        | Long-term value: 10 ppm<br>A4                                                                                                   |

(Contd. on page 9)



Product Name: VOC Mix (Non-Gases)

(Contd. of page 8)

|                                                  |                                                                                                                                                                                                                             |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>108-88-3 toluene</b>                          |                                                                                                                                                                                                                             |
| PEL                                              | Long-term value: 200 ppm<br>Ceiling limit value: 300; 500* ppm<br>*10-min peak per 8-hr shift                                                                                                                               |
| REL                                              | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm                                                                                                                       |
| TLV                                              | Long-term value: 20 ppm<br>BEI, OTO, A4                                                                                                                                                                                     |
| <b>120-82-1 1,2,4-trichlorobenzene</b>           |                                                                                                                                                                                                                             |
| REL                                              | Ceiling limit value: 40 mg/m <sup>3</sup> , 5 ppm                                                                                                                                                                           |
| TLV                                              | Ceiling limit value: 5 ppm                                                                                                                                                                                                  |
| <b>127-18-4 tetrachloroethylene</b>              |                                                                                                                                                                                                                             |
| PEL                                              | Long-term value: 100 ppm<br>Ceiling limit value: 200; 300* ppm<br>*5-min peak in any 3 hrs                                                                                                                                  |
| REL                                              | Minimize workplace exp. concs.; Pocket Guide App. A                                                                                                                                                                         |
| TLV                                              | Short-term value: 100 ppm<br>Long-term value: 25 ppm<br>BEI, A3                                                                                                                                                             |
| <b>630-20-6 1,1,1,2-Tetrachloroethane</b>        |                                                                                                                                                                                                                             |
| REL                                              | Handle with caution; See Pocket Guide App. C                                                                                                                                                                                |
| <b>Ingredients with biological limit values:</b> |                                                                                                                                                                                                                             |
| <b>67-56-1 methanol</b>                          |                                                                                                                                                                                                                             |
| BEI                                              | 15 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Methanol (background, nonspecific)                                                                                                                             |
| <b>71-43-2 benzene</b>                           |                                                                                                                                                                                                                             |
| BEI                                              | 25 µg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: S-Phenylmercapturic acid (background)<br><br>500 µg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: t,t-Muconic acid (background) |
| <b>71-55-6 1,1,1-trichloroethane</b>             |                                                                                                                                                                                                                             |
| BEI                                              | 20 ppm<br>Medium: end-exhaled air<br>Time: prior to shift at end of workweek<br>Parameter: Methyl chloroform<br><br>700 µg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Methyl chloroform                         |
| <b>75-09-2 dichloromethane</b>                   |                                                                                                                                                                                                                             |
| BEI                                              | 0.3 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Dichloromethane (semi-quantitative)                                                                                                                           |

(Contd. on page 10)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 9)

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>79-01-6 trichloroethylene</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>15 mg/L<br/>Medium: urine<br/>Time: end of shift at end of workweek<br/>Parameter: Trichloroacetic acid (nonspecific)</p> <p>0.5 mg/L<br/>Medium: blood<br/>Time: end of shift at end of workweek<br/>Parameter: Trichloroethanol without hydrolysis (nonspecific)</p> <p>-<br/>Medium: blood<br/>Time: end of shift at end of workweek<br/>Parameter: Trichloroethylene (semi-quantitative)</p> <p>-<br/>Medium: end-exhaled air<br/>Time: end of shift at end of workweek<br/>Parameter: Trichloroethylene (semi-quantitative)</p> |
| <b>91-20-3 naphthalene</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>-<br/>Medium: -<br/>Time: end of shift<br/>Parameter: 1-Naphthol with hydrolysis + 2-Naphthol with hydrolysis (Nq,Ns)</p>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>100-41-4 ethylbenzene</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>0.15 g/g creatinine<br/>Medium: urine<br/>Time: end of shift at end of workweek<br/>Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)</p>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>100-42-5 styrene</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>400 mg/g creatinine<br/>Medium: urine<br/>Time: end of shift<br/>Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)</p> <p>40 µg/L<br/>Medium: urine<br/>Time: end of shift<br/>Parameter: Styrene</p>                                                                                                                                                                                                                                                                                                                 |
| <b>108-88-3 toluene</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>0.02 mg/L<br/>Medium: blood<br/>Time: prior to last shift of workweek<br/>Parameter: Toluene</p> <p>0.03 mg/L<br/>Medium: urine<br/>Time: end of shift<br/>Parameter: Toluene</p> <p>0.3 mg/g creatinine<br/>Medium: urine<br/>Time: end of shift<br/>Parameter: o-Cresol with hydrolysis (background)</p>                                                                                                                                                                                                                           |
| <b>127-18-4 tetrachloroethylene</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| BEI                                 | <p>3 ppm<br/>Medium: end-exhaled air<br/>Time: prior to shift<br/>Parameter: Tetrachloroethylene</p> <p>0.5 mg/L<br/>Medium: blood<br/>Time: prior to shift<br/>Parameter: Tetrachloroethylene</p>                                                                                                                                                                                                                                                                                                                                      |

· **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 11)

**Product Name: VOC Mix (Non-Gases)**

(Contd. of page 10)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

**Form:** Liquid  
**Color:** According to product specification

· **Odor:** Characteristic

· **Odour Threshold:** Not applicable.

· **pH-value:** Not applicable.

#### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 64.7 °C (148.5 °F)

· **Flash point:** < 23 °C (< 73.4 °F)

· **Flammability (solid, gaseous):** Highly flammable.

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### · Explosion limits:

**Lower:** 5.5 Vol %  
**Upper:** 44 Vol %

· **Vapor pressure at 20 °C (68 °F):** 128 hPa (96 mm Hg)

· **Density** Not applicable.

· **Relative density** Not applicable.

· **Vapor density** Not applicable.

· **Evaporation rate** Not applicable.

#### · Solubility in / Miscibility with

**Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not applicable.

(Contd. on page 12)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 11)

|                            |                                            |
|----------------------------|--------------------------------------------|
| · <b>Viscosity:</b>        |                                            |
| <b>Dynamic:</b>            | Not applicable.                            |
| <b>Kinematic:</b>          | Not applicable.                            |
| · <b>Solvent content:</b>  |                                            |
| <b>Organic solvents:</b>   | 94.8 %                                     |
| <b>VOC content:</b>        | 94.20 %                                    |
| <b>Solids content:</b>     | 0.8 %                                      |
| · <b>Other information</b> | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

|                                                               |      |                       |  |
|---------------------------------------------------------------|------|-----------------------|--|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                       |  |
| <b>67-56-1 methanol</b>                                       |      |                       |  |
| Oral                                                          | LD50 | 5,628 mg/kg (rat)     |  |
| Dermal                                                        | LD50 | 15,800 mg/kg (rabbit) |  |

- **Primary irritant effect:**
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic  
Irritant  
Product is suspected to cause damage to fertility.  
Product is suspected to cause birth defects.  
The product can cause inheritable damage.

- **Carcinogenic categories**

|                                                             |                             |    |
|-------------------------------------------------------------|-----------------------------|----|
| · <b>IARC (International Agency for Research on Cancer)</b> |                             |    |
| 56-23-5                                                     | carbon tetrachloride        | 2B |
| 67-66-3                                                     | chloroform                  | 2B |
| 71-43-2                                                     | benzene                     | 1  |
| 71-55-6                                                     | 1,1,1-trichloroethane       | 2A |
| 75-09-2                                                     | dichloromethane             | 2A |
| 75-25-2                                                     | bromoform                   | 3  |
| 75-27-4                                                     | bromodichloromethane        | 2B |
| 75-35-4                                                     | 1,1-dichloroethylene        | 2B |
| 78-87-5                                                     | propylene dichloride        | 1  |
| 79-00-5                                                     | 1,1,2-trichloroethane       | 3  |
| 79-01-6                                                     | trichloroethylene           | 1  |
| 79-34-5                                                     | 1,1,2,2-tetrachloroethane   | 2B |
| 87-68-3                                                     | hexachlorobuta-1,3-diene    | 3  |
| 91-20-3                                                     | naphthalene                 | 2B |
| 95-47-6                                                     | o-xylene                    | 3  |
| 95-50-1                                                     | 1,2-dichlorobenzene         | 3  |
| 96-12-8                                                     | 1,2-dibromo-3-chloropropane | 2B |
| 96-18-4                                                     | 1,2,3-trichloropropane      | 2A |
| 98-82-8                                                     | isopropylbenzene            | 2B |
| 100-41-4                                                    | ethylbenzene                | 2B |

(Contd. on page 13)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 12)

|          |                      |    |
|----------|----------------------|----|
| 100-42-5 | styrene              | 2A |
| 106-42-3 | p-xylene             | 3  |
| 106-46-7 | 1,4-dichlorobenzene  | 2B |
| 106-93-4 | 1,2-dibromoethane    | 2A |
| 107-06-2 | 1,2-dichloroethane   | 2B |
| 108-38-3 | m-xylene             | 3  |
| 108-88-3 | toluene              | 3  |
| 124-48-1 | dibromochloromethane | 3  |
| 127-18-4 | tetrachloroethylene  | 2A |
| 541-73-1 | 1,3-dichlorobenzene  | 3  |

|                                            |                             |   |
|--------------------------------------------|-----------------------------|---|
| · <b>NTP (National Toxicology Program)</b> |                             |   |
| 56-23-5                                    | carbon tetrachloride        | R |
| 67-66-3                                    | chloroform                  | R |
| 71-43-2                                    | benzene                     | K |
| 75-09-2                                    | dichloromethane             | R |
| 75-27-4                                    | bromodichloromethane        | R |
| 79-01-6                                    | trichloroethylene           | K |
| 91-20-3                                    | naphthalene                 | R |
| 96-12-8                                    | 1,2-dibromo-3-chloropropane | R |
| 96-18-4                                    | 1,2,3-trichloropropane      | R |
| 98-82-8                                    | isopropylbenzene            | R |
| 100-42-5                                   | styrene                     | R |
| 106-46-7                                   | 1,4-dichlorobenzene         | R |
| 106-93-4                                   | 1,2-dibromoethane           | R |
| 107-06-2                                   | 1,2-dichloroethane          | R |
| 127-18-4                                   | tetrachloroethylene         | R |

|                                                                    |                             |  |
|--------------------------------------------------------------------|-----------------------------|--|
| · <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |                             |  |
| 71-43-2                                                            | benzene                     |  |
| 75-09-2                                                            | dichloromethane             |  |
| 96-12-8                                                            | 1,2-dibromo-3-chloropropane |  |

## 12 Ecological information

### · Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

### · Behavior in environmental systems:

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

### · Additional ecological information:

#### · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.

### · Results of PBT and vPvB assessment

|               |                          |  |
|---------------|--------------------------|--|
| · <b>PBT:</b> |                          |  |
| 87-61-6       | 1,2,3-trichlorobenzene   |  |
| 87-68-3       | hexachlorobuta-1,3-diene |  |
| 120-82-1      | 1,2,4-trichlorobenzene   |  |

|                |                          |  |
|----------------|--------------------------|--|
| · <b>vPvB:</b> |                          |  |
| 87-68-3        | hexachlorobuta-1,3-diene |  |

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### · Waste treatment methods

- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### · Uncleaned packagings:

- **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 14)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 13)

· Recommended cleansing agent: Water, if necessary with cleansing agents.

#### 14 Transport information

|                                                                                                                                                                         |                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · UN-Number                                                                                                                                                             | UN1230                                                                                                          |
| · DOT, ADR, IMDG, IATA                                                                                                                                                  |                                                                                                                 |
| · UN proper shipping name                                                                                                                                               | Methanol                                                                                                        |
| · DOT                                                                                                                                                                   | 1230 METHANOL                                                                                                   |
| · ADR                                                                                                                                                                   | METHANOL                                                                                                        |
| · IMDG, IATA                                                                                                                                                            |                                                                                                                 |
| · Transport hazard class(es)                                                                                                                                            |                                                                                                                 |
| · DOT                                                                                                                                                                   |                                                                                                                 |
|       |                                                                                                                 |
| · Class                                                                                                                                                                 | 3 Flammable liquids                                                                                             |
| · Label                                                                                                                                                                 | 3, 6.1                                                                                                          |
| · ADR                                                                                                                                                                   |                                                                                                                 |
|       |                                                                                                                 |
| · Class                                                                                                                                                                 | 3 Flammable liquids                                                                                             |
| · Label                                                                                                                                                                 | 3+6.1                                                                                                           |
| · IMDG                                                                                                                                                                  |                                                                                                                 |
|     |                                                                                                                 |
| · Class                                                                                                                                                                 | 3 Flammable liquids                                                                                             |
| · Label                                                                                                                                                                 | 3/6.1                                                                                                           |
| · IATA                                                                                                                                                                  |                                                                                                                 |
|   |                                                                                                                 |
| · Class                                                                                                                                                                 | 3 Flammable liquids                                                                                             |
| · Label                                                                                                                                                                 | 3 (6.1)                                                                                                         |
| · Packing group                                                                                                                                                         |                                                                                                                 |
| · DOT, ADR, IMDG, IATA                                                                                                                                                  | II                                                                                                              |
| · Environmental hazards:                                                                                                                                                | Not applicable.                                                                                                 |
| · Special precautions for user                                                                                                                                          | Warning: Flammable liquids                                                                                      |
| · Hazard identification number (Kemler code):                                                                                                                           | 336                                                                                                             |
| · EMS Number:                                                                                                                                                           | F-E,S-D                                                                                                         |
| · Stowage Category                                                                                                                                                      | B                                                                                                               |
| · Stowage Code                                                                                                                                                          | SW2 Clear of living quarters.                                                                                   |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code                                                                                               | Not applicable.                                                                                                 |
| · Transport/Additional information:                                                                                                                                     |                                                                                                                 |
| · ADR                                                                                                                                                                   |                                                                                                                 |
| · Excepted quantities (EQ)                                                                                                                                              | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · IMDG                                                                                                                                                                  |                                                                                                                 |
| · Limited quantities (LQ)                                                                                                                                               | 1L                                                                                                              |

(Contd. on page 15)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 14)

|                            |                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|
| · Excepted quantities (EQ) | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation":   | UN 1230 METHANOL, 3 (6.1), II                                                                                   |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| · Section 313 (Specific toxic chemical listings): |                             |
| 67-56-1                                           | methanol                    |
| 56-23-5                                           | carbon tetrachloride        |
| 67-66-3                                           | chloroform                  |
| 71-43-2                                           | benzene                     |
| 71-55-6                                           | 1,1,1-trichloroethane       |
| 74-95-3                                           | dibromomethane              |
| 75-09-2                                           | dichloromethane             |
| 75-25-2                                           | bromoform                   |
| 75-27-4                                           | bromodichloromethane        |
| 75-34-3                                           | 1,1-dichloroethane          |
| 75-35-4                                           | 1,1-dichloroethylene        |
| 78-87-5                                           | propylene dichloride        |
| 79-00-5                                           | 1,1,2-trichloroethane       |
| 79-01-6                                           | trichloroethylene           |
| 79-34-5                                           | 1,1,2,2-tetrachloroethane   |
| 87-68-3                                           | hexachlorobuta-1,3-diene    |
| 91-20-3                                           | naphthalene                 |
| 95-47-6                                           | o-xylene                    |
| 95-50-1                                           | 1,2-dichlorobenzene         |
| 95-63-6                                           | 1,2,4-trimethylbenzene      |
| 96-12-8                                           | 1,2-dibromo-3-chloropropane |
| 96-18-4                                           | 1,2,3-trichloropropane      |
| 98-82-8                                           | isopropylbenzene            |
| 100-41-4                                          | ethylbenzene                |
| 100-42-5                                          | styrene                     |
| 106-42-3                                          | p-xylene                    |
| 106-46-7                                          | 1,4-dichlorobenzene         |
| 106-93-4                                          | 1,2-dibromoethane           |
| 107-06-2                                          | 1,2-dichloroethane          |
| 108-38-3                                          | m-xylene                    |

### · TSCA (Toxic Substances Control Act):

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

|         |                       |        |
|---------|-----------------------|--------|
| 67-56-1 | methanol              | ACTIVE |
| 56-23-5 | carbon tetrachloride  | ACTIVE |
| 67-66-3 | chloroform            | ACTIVE |
| 71-43-2 | benzene               | ACTIVE |
| 71-55-6 | 1,1,1-trichloroethane | ACTIVE |
| 74-95-3 | dibromomethane        | ACTIVE |
| 74-97-5 | bromochloromethane    | ACTIVE |
| 75-09-2 | dichloromethane       | ACTIVE |
| 75-25-2 | bromoform             | ACTIVE |
| 75-27-4 | bromodichloromethane  | ACTIVE |
| 75-34-3 | 1,1-dichloroethane    | ACTIVE |
| 75-35-4 | 1,1-dichloroethylene  | ACTIVE |
| 78-87-5 | propylene dichloride  | ACTIVE |
| 79-00-5 | 1,1,2-trichloroethane | ACTIVE |

(Contd. on page 16)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 15)

|          |                             |        |
|----------|-----------------------------|--------|
| 79-01-6  | trichloroethylene           | ACTIVE |
| 79-34-5  | 1,1,2,2-tetrachloroethane   | ACTIVE |
| 87-61-6  | 1,2,3-trichlorobenzene      | ACTIVE |
| 87-68-3  | hexachlorobuta-1,3-diene    | ACTIVE |
| 91-20-3  | naphthalene                 | ACTIVE |
| 95-47-6  | o-xylene                    | ACTIVE |
| 95-49-8  | 2-chlorotoluene             | ACTIVE |
| 95-50-1  | 1,2-dichlorobenzene         | ACTIVE |
| 95-63-6  | 1,2,4-trimethylbenzene      | ACTIVE |
| 96-12-8  | 1,2-dibromo-3-chloropropane | ACTIVE |
| 96-18-4  | 1,2,3-trichloropropane      | ACTIVE |
| 98-06-6  | tert-butylbenzene           | ACTIVE |
| 98-82-8  | isopropylbenzene            | ACTIVE |
| 99-87-6  | p-cymene                    | ACTIVE |
| 100-41-4 | ethylbenzene                | ACTIVE |
| 100-42-5 | styrene                     | ACTIVE |

**- Hazardous Air Pollutants**

|          |                             |
|----------|-----------------------------|
| 67-56-1  | methanol                    |
| 56-23-5  | carbon tetrachloride        |
| 67-66-3  | chloroform                  |
| 71-43-2  | benzene                     |
| 71-55-6  | 1,1,1-trichloroethane       |
| 75-09-2  | dichloromethane             |
| 75-25-2  | bromoform                   |
| 75-34-3  | 1,1-dichloroethane          |
| 75-35-4  | 1,1-dichloroethylene        |
| 78-87-5  | propylene dichloride        |
| 79-00-5  | 1,1,2-trichloroethane       |
| 79-01-6  | trichloroethylene           |
| 79-34-5  | 1,1,2,2-tetrachloroethane   |
| 87-68-3  | hexachlorobuta-1,3-diene    |
| 91-20-3  | naphthalene                 |
| 95-47-6  | o-xylene                    |
| 96-12-8  | 1,2-dibromo-3-chloropropane |
| 98-82-8  | isopropylbenzene            |
| 100-41-4 | ethylbenzene                |
| 100-42-5 | styrene                     |
| 106-42-3 | p-xylene                    |
| 106-46-7 | 1,4-dichlorobenzene         |
| 106-93-4 | 1,2-dibromoethane           |
| 107-06-2 | 1,2-dichloroethane          |
| 108-38-3 | m-xylene                    |
| 108-88-3 | toluene                     |
| 108-90-7 | chlorobenzene               |
| 120-82-1 | 1,2,4-trichlorobenzene      |
| 127-18-4 | tetrachloroethylene         |

**- Proposition 65**

**- Chemicals known to cause cancer:**

|         |                      |
|---------|----------------------|
| 56-23-5 | carbon tetrachloride |
| 67-66-3 | chloroform           |
| 71-43-2 | benzene              |
| 75-09-2 | dichloromethane      |
| 75-25-2 | bromoform            |
| 75-27-4 | bromodichloromethane |
| 75-34-3 | 1,1-dichloroethane   |
| 75-35-4 | 1,1-dichloroethylene |

(Contd. on page 17)



Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 16)

|          |                             |
|----------|-----------------------------|
| 78-87-5  | propylene dichloride        |
| 79-00-5  | 1,1,2-trichloroethane       |
| 79-01-6  | trichloroethylene           |
| 79-34-5  | 1,1,2,2-tetrachloroethane   |
| 87-68-3  | hexachlorobuta-1,3-diene    |
| 91-20-3  | naphthalene                 |
| 96-12-8  | 1,2-dibromo-3-chloropropane |
| 96-18-4  | 1,2,3-trichloropropane      |
| 98-82-8  | isopropylbenzene            |
| 100-41-4 | ethylbenzene                |
| 100-42-5 | styrene                     |
| 106-46-7 | 1,4-dichlorobenzene         |
| 106-93-4 | 1,2-dibromoethane           |
| 107-06-2 | 1,2-dichloroethane          |
| 127-18-4 | tetrachloroethylene         |
| 630-20-6 | 1,1,1,2-Tetrachloroethane   |

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

|          |                             |
|----------|-----------------------------|
| 71-43-2  | benzene                     |
| 79-01-6  | trichloroethylene           |
| 96-12-8  | 1,2-dibromo-3-chloropropane |
| 106-93-4 | 1,2-dibromoethane           |

· Chemicals known to cause developmental toxicity:

|          |                   |
|----------|-------------------|
| 67-56-1  | methanol          |
| 67-66-3  | chloroform        |
| 71-43-2  | benzene           |
| 79-01-6  | trichloroethylene |
| 106-93-4 | 1,2-dibromoethane |
| 108-88-3 | toluene           |

· Carcinogenic categories

· EPA (Environmental Protection Agency)

|          |                           |                       |
|----------|---------------------------|-----------------------|
| 56-23-5  | carbon tetrachloride      | L                     |
| 67-66-3  | chloroform                | B2, L, NL             |
| 71-43-2  | benzene                   | A, K/L                |
| 71-55-6  | 1,1,1-trichloroethane     | II                    |
| 74-97-5  | bromochloromethane        | D                     |
| 75-09-2  | dichloromethane           | L                     |
| 75-25-2  | bromoform                 | B2                    |
| 75-27-4  | bromodichloromethane      | B2                    |
| 75-34-3  | 1,1-dichloroethane        | C                     |
| 75-35-4  | 1,1-dichloroethylene      | C, S (inh.), I (oral) |
| 79-00-5  | 1,1,2-trichloroethane     | C                     |
| 79-01-6  | trichloroethylene         | CaH                   |
| 79-34-5  | 1,1,2,2-tetrachloroethane | L                     |
| 87-68-3  | hexachlorobuta-1,3-diene  | C                     |
| 91-20-3  | naphthalene               | C, CBD                |
| 95-47-6  | o-xylene                  | I                     |
| 95-50-1  | 1,2-dichlorobenzene       | D                     |
| 95-63-6  | 1,2,4-trimethylbenzene    | II                    |
| 96-18-4  | 1,2,3-trichloropropane    | L                     |
| 98-82-8  | isopropylbenzene          | D, CBD                |
| 100-41-4 | ethylbenzene              | D                     |
| 106-42-3 | p-xylene                  | I                     |
| 106-93-4 | 1,2-dibromoethane         | L                     |
| 107-06-2 | 1,2-dichloroethane        | B2                    |

(Contd. on page 18)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 17)

|          |                        |    |
|----------|------------------------|----|
| 108-38-3 | m-xylene               | I  |
| 108-67-8 | mesitylene             | II |
| 108-86-1 | bromobenzene           | II |
| 108-88-3 | toluene                | II |
| 108-90-7 | chlorobenzene          | D  |
| 120-82-1 | 1,2,4-trichlorobenzene | D  |

· **TLV (Threshold Limit Value)**

|          |                           |    |
|----------|---------------------------|----|
| 56-23-5  | carbon tetrachloride      | A2 |
| 67-66-3  | chloroform                | A3 |
| 71-43-2  | benzene                   | A1 |
| 71-55-6  | 1,1,1-trichloroethane     | A4 |
| 75-09-2  | dichloromethane           | A3 |
| 75-25-2  | bromoform                 | A3 |
| 75-34-3  | 1,1-dichloroethane        | A4 |
| 75-35-4  | 1,1-dichloroethylene      | A4 |
| 78-87-5  | propylene dichloride      | A4 |
| 79-00-5  | 1,1,2-trichloroethane     | A3 |
| 79-01-6  | trichloroethylene         | A2 |
| 79-34-5  | 1,1,2,2-tetrachloroethane | A3 |
| 87-68-3  | hexachlorobuta-1,3-diene  | A3 |
| 91-20-3  | naphthalene               | A4 |
| 95-47-6  | o-xylene                  | A4 |
| 95-50-1  | 1,2-dichlorobenzene       | A4 |
| 96-18-4  | 1,2,3-trichloropropane    | A3 |
| 100-41-4 | ethylbenzene              | A3 |
| 100-42-5 | styrene                   | A4 |
| 106-42-3 | p-xylene                  | A4 |
| 106-46-7 | 1,4-dichlorobenzene       | A3 |
| 106-93-4 | 1,2-dibromoethane         | A3 |
| 107-06-2 | 1,2-dichloroethane        | A4 |
| 108-38-3 | m-xylene                  | A4 |
| 108-88-3 | toluene                   | A4 |
| 108-90-7 | chlorobenzene             | A3 |
| 127-18-4 | tetrachloroethylene       | A3 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

|          |                             |
|----------|-----------------------------|
| 56-23-5  | carbon tetrachloride        |
| 67-66-3  | chloroform                  |
| 71-43-2  | benzene                     |
| 75-09-2  | dichloromethane             |
| 75-35-4  | 1,1-dichloroethylene        |
| 78-87-5  | propylene dichloride        |
| 79-00-5  | 1,1,2-trichloroethane       |
| 79-01-6  | trichloroethylene           |
| 79-34-5  | 1,1,2,2-tetrachloroethane   |
| 87-68-3  | hexachlorobuta-1,3-diene    |
| 96-12-8  | 1,2-dibromo-3-chloropropane |
| 96-18-4  | 1,2,3-trichloropropane      |
| 106-46-7 | 1,4-dichlorobenzene         |
| 106-93-4 | 1,2-dibromoethane           |
| 107-06-2 | 1,2-dichloroethane          |
| 127-18-4 | tetrachloroethylene         |

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 19)

Product Name: VOC Mix (Non-Gases)

(Contd. of page 18)

· **Hazard pictograms**



· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

methanol  
benzene  
1,2-dibromo-3-chloropropane  
carbon tetrachloride  
(Z)-1,3-dichloropropene

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
H331 Toxic if inhaled.  
H317 May cause an allergic skin reaction.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H370 Causes damage to the central nervous system and the visual organs.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** product safety department

· **Contact:**

Spex CertiPrep, LLC.  
1-732-549-7144

· **Date of preparation / last revision** 06/13/2023

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit

(Contd. on page 20)

Printing date 06/13/2023

Reviewed on 06/13/2023

Product Name: VOC Mix (Non-Gases)

(Contd. of page 19)

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Sensitization - Skin 1: Skin sensitisation – Category 1

Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B

Carcinogenicity 1A: Carcinogenicity – Category 1A

Toxic to Reproduction 1A: Reproductive toxicity – Category 1A

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

US