

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

· **Product identifier**

· **Trade name:** VOC-M54C-A1

· **Other means of identification**

· **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** *For Laboratory Use Only*

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

· **Manufacturer/Supplier:**

NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA

· **Information department:** *Product safety department*

· **Emergency telephone number:** *During normal opening times: +1 (919) 789-3000*

* 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.

Reproductive toxicity 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

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 1)

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

hexachlorobuta-1,3-diene

(Z)-1,3-dichloropropene

(E)-1,3-dichloroprop-1-ene

· **Hazard statements**

Highly flammable liquid and vapor.

Toxic if inhaled.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

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

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take action to prevent static discharge.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

In case of fire: Use CO₂, powder or water spray to extinguish.

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

Store in a well-ventilated place. Keep cool.

Store locked up.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 2)

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

- **Information pertaining to particular dangers for man and environment:**
- **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	

- **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
67-56-1	methanol	80–100%
56-23-5	carbon tetrachloride	≥0.2–<1%
67-66-3	trichloromethane	0.1–1%
71-43-2	benzene	0.1–1%
71-55-6	1,1,1-trichloroethane	0.1–1%
75-09-2	dichloromethane	0.1–1%
75-27-4	bromodichloromethane	0.1–1%
75-35-4	1,1-dichloroethylene	0.1–1%
78-87-5	1,2-dichloropropane	0.1–1%
79-00-5	1,1,2-trichloroethane	0.1–1%
79-01-6	trichloroethylene	≥0.1–<1%
79-34-5	1,1,2,2-tetrachloroethane	0.1–1%
87-61-6	1,2,3-trichlorobenzene	0.1–1%
87-68-3	hexachlorobuta-1,3-diene	≥0.1–<1%

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 3)

91-20-3	naphthalene	0.1–1%
96-12-8	1,2-dibromo-3-chloropropane	0.1–1%
96-18-4	1,2,3-trichloropropane	0.1–1%
98-82-8	Cumene	0.1–1%
100-41-4	ethylbenzene	0.1–1%
100-42-5	styrene	0.1–1%
103-65-1	propylbenzene	0.1–1%
106-46-7	1,4-dichlorobenzene	0.1–1%
106-93-4	1,2-dibromoethane	0.1–1%
107-06-2	1,2-dichloroethane	0.1–1%
108-88-3	toluene	0.1–1%
120-82-1	1,2,4-trichlorobenzene	0.1–1%
127-18-4	tetrachloroethylene	0.1–1%
630-20-6	1,1,1,2-Tetrachloroethane	≥0.1–<1%
10061-01-5	(Z)-1,3-dichloropropene	≥0.1–<1%
10061-02-6	(E)-1,3-dichloroprop-1-ene	≥0.1–<1%

· Non-hazardous components

74-95-3	dibromomethane	0.1–1%
74-97-5	bromochloromethane	0.1–1%
75-25-2	bromoform	0.1–1%
75-34-3	1,1-dichloroethane	0.1–1%
95-47-6	o-xylene	0.1–1%
95-49-8	2-chlorotoluene	0.1–1%
95-50-1	1,2-dichlorobenzene	0.1–1%
95-63-6	1,2,4-trimethylbenzene	0.1–1%
98-06-6	tert-butylbenzene	0.1–1%
99-87-6	p-cymene	0.1–1%
104-51-8	butylbenzene	0.1–1%
106-42-3	p-xylene	0.1–1%
106-43-4	4-chlorotoluene	0.1–1%
108-38-3	m-xylene	0.1–1%
108-67-8	mesitylene	0.1–1%
108-86-1	bromobenzene	0.1–1%
108-90-7	chlorobenzene	0.1–1%
124-48-1	dibromochloromethane	≥0.1–<1%
135-98-8	sec-butylbenzene	0.1–1%
142-28-9	1,3-dichloropropane	0.1–1%
156-59-2	cis-dichloroethylene	0.1–1%
156-60-5	trans-dichloroethylene	0.1–1%
541-73-1	1,3-dichlorobenzene	0.1–1%
563-58-6	1,1-dichloropropene	0.1–1%

(Contd. on page 5)

— US —

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 4)

594-20-7 2,2-dichloropropane

0.1–1%

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.

· After swallowing: If symptoms persist consult 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:

CO₂, 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 section 13.

Ensure adequate ventilation.

· Protective Action Criteria for Chemicals

· PAC-1:

67-56-1	methanol	530 ppm
56-23-5	carbon tetrachloride	1.2 ppm
67-66-3	trichloromethane	2.0 ppm
71-43-2	benzene	52 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
74-95-3	dibromomethane	3 ppm

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 5)

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 ³
75-34-3	1,1-dichloroethane	300 ppm
75-35-4	1,1-dichloroethylene	45 ppm
78-87-5	1,2-dichloropropane	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 ³
87-68-3	hexachlorobuta-1,3-diene	1.0 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	0.030 mg/m ³
96-18-4	1,2,3-trichloropropane	0.015 ppm
98-06-6	tert-butylbenzene	7.5 mg/m ³
98-82-8	Cumene	50 ppm
99-87-6	p-cymene	120 mg/m ³
100-41-4	ethylbenzene	33 ppm
100-42-5	styrene	20 ppm
103-65-1	propylbenzene	3.7 ppm

· PAC-2:

67-56-1	methanol	2100 ppm
56-23-5	carbon tetrachloride	13 ppm
67-66-3	trichloromethane	64 ppm
71-43-2	benzene	800 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
74-95-3	dibromomethane	230 mg/m ³
74-97-5	bromochloromethane	830 ppm
75-09-2	dichloromethane	560 ppm
75-25-2	bromoform	140 ppm
75-27-4	bromodichloromethane	14 mg/m ³
75-34-3	1,1-dichloroethane	670 ppm
75-35-4	1,1-dichloroethylene	500 ppm
78-87-5	1,2-dichloropropane	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 ³
87-68-3	hexachlorobuta-1,3-diene	3.0 ppm

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 6)

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	0.72 mg/m ³
96-18-4	1,2,3-trichloropropane	170 ppm
98-06-6	tert-butylbenzene	83 mg/m ³
98-82-8	Cumene	300 ppm
99-87-6	p-cymene	1,300 mg/m ³
100-41-4	ethylbenzene	1100 ppm
100-42-5	styrene	130 ppm
103-65-1	propylbenzene	41 ppm

PAC-3:

67-56-1	methanol	7200 ppm
56-23-5	carbon tetrachloride	340 ppm
67-66-3	trichloromethane	3200 ppm
71-43-2	benzene	4000* ppm
71-55-6	1,1,1-trichloroethane	4200 ppm
74-95-3	dibromomethane	1400 mg/m ³
74-97-5	bromochloromethane	5,000 ppm
75-09-2	dichloromethane	6900 ppm
75-25-2	bromoform	850 ppm
75-27-4	bromodichloromethane	85 mg/m ³
75-34-3	1,1-dichloroethane	4,000 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
78-87-5	1,2-dichloropropane	2,000 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
79-01-6	trichloroethylene	3800 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
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	470 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 mg/m ³
96-18-4	1,2,3-trichloropropane	1,000 ppm
98-06-6	tert-butylbenzene	500 mg/m ³
98-82-8	Cumene	730 ppm
99-87-6	p-cymene	1,900 mg/m ³
100-41-4	ethylbenzene	1800 ppm
100-42-5	styrene	1100 ppm
103-65-1	propylbenzene	240 ppm

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 7)

- **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.

7 Handling and storage

- **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

- **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.

67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

TLV Short-term value: 328 mg/m³, 250 ppm

Long-term value: 262 mg/m³, 200 ppm

Skin; BEI

56-23-5 carbon tetrachloride

PEL Long-term value: 10 ppm

Ceiling limit value: 25; 200* ppm

*5-min peak in any 4 hrs

REL Short-term value: 12.6* mg/m³, 2* ppm

*60-min; See Pocket Guide App. A

TLV Short-term value: 63 mg/m³, 10 ppm

Long-term value: 31 mg/m³, 5 ppm

Skin, A2

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 8)

67-66-3 trichloromethanePEL Ceiling limit value: 240 mg/m³, 50 ppmREL Short-term value: 9.78* mg/m³, 2* ppm
*60-min; See Pocket Guide App. ATLV Long-term value: 49 mg/m³, 10 ppm
A3**71-43-2 benzene**PEL Short-term value: 15* mg/m³, 5* ppm
Long-term value: 3* mg/m³, 1* ppm
*table Z-2 for exclusions in 29CFR1910.1028(d)REL Short-term value: 1 ppm
Long-term value: 0.1 ppm
See Pocket Guide App. ATLV Long-term value: 0.02 ppm
Skin; BEI, A1**71-55-6 1,1,1-trichloroethane**PEL Long-term value: 1900 mg/m³, 350 ppmREL Ceiling limit value: 1900* mg/m³, 350* ppm
*15-min; See Pocket Guide App. CTLV Short-term value: 2460 mg/m³, 450 ppm
Long-term value: 1940 mg/m³, 350 ppm
BEI, A4**75-09-2 dichloromethane**PEL Short-term value: 125 ppm
Long-term value: 25 ppm
see 29 CFR 1910.1052

REL See Pocket Guide App. A

TLV Long-term value: 174 mg/m³, 50 ppm
BEI, A3**75-35-4 1,1-dichloroethylene**

REL See Pocket Guide App. A

TLV Long-term value: 20 mg/m³, 5 ppm
A4**78-87-5 1,2-dichloropropane**PEL Long-term value: 350 mg/m³, 75 ppm

REL See Pocket Guide App. A

TLV Long-term value: 46 mg/m³, 10 ppm
DSEN, A4**79-00-5 1,1,2-trichloroethane**PEL Long-term value: 45 mg/m³, 10 ppm
SkinREL Long-term value: 45 mg/m³, 10 ppm
Skin; See Pocket Guide Apps. A and CTLV Long-term value: 55 mg/m³, 10 ppm
Skin, A3

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 9)

79-01-6 trichloroethylene

PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 2 hrs
REL	See Pocket Guide Apps. A and C
TLV	Short-term value: 135 mg/m ³ , 25 ppm Long-term value: 54 mg/m ³ , 10 ppm BEI, A2

79-34-5 1,1,2,2-tetrachloroethane

PEL	Long-term value: 35 mg/m ³ , 5 ppm Skin
REL	Long-term value: 7 mg/m ³ , 1 ppm Skin; See Pocket Guide Apps. A and C
TLV	Long-term value: 6.9 mg/m ³ , 1 ppm Skin, A3

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

REL	Long-term value: 0.24 mg/m ³ , 0.02 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 0.21 mg/m ³ , 0.02 ppm Skin, A3

91-20-3 naphthalene

PEL	Long-term value: 50 mg/m ³ , 10 ppm
REL	Short-term value: 75 mg/m ³ , 15 ppm Long-term value: 50 mg/m ³ , 10 ppm
TLV	Long-term value: 52 mg/m ³ , 10 ppm Skin; BEI, A3

96-12-8 1,2-dibromo-3-chloropropane

PEL	Long-term value: 0.001 ppm see 29 CFR 1910.1044
REL	See Pocket Guide App. A

96-18-4 1,2,3-trichloropropane

PEL	Long-term value: 300 mg/m ³ , 50 ppm
REL	Long-term value: 60 mg/m ³ , 10 ppm Skin, See Pocket Guide App. A
TLV	Long-term value: 0.03 mg/m ³ , 0.005 ppm A2

98-82-8 Cumene

PEL	Long-term value: 245 mg/m ³ , 50 ppm Skin
REL	Long-term value: 245 mg/m ³ , 50 ppm Skin
TLV	Long-term value: 25 mg/m ³ , 5 ppm A3

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
-----	--

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 10)

REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3
100-42-5 styrene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV	Short-term value: 20 ppm Long-term value: 10 ppm BEI, OTO, A3
106-46-7 1,4-dichlorobenzene	
PEL	Long-term value: 450 mg/m ³ , 75 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 60 mg/m ³ , 10 ppm A3
106-93-4 1,2-dibromoethane	
PEL	Long-term value: 20 ppm Ceiling limit value: 30; 50* ppm *5-min peak per 8-hr shift
REL	Long-term value: 0.045 ppm Ceiling limit value: 0.13* ppm *15-min; See Pocket Guide App. A
TLV	Skin, A3
107-06-2 1,2-dichloroethane	
PEL	Long-term value: 50 ppm Ceiling limit value: 100; 200* ppm *5-min peak in any 3 hrs
REL	Short-term value: 8 mg/m ³ , 2 ppm Long-term value: 4 mg/m ³ , 1 ppm See Pocket Guide Apps. A and C
TLV	Long-term value: 40 mg/m ³ , 10 ppm A4
108-88-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
120-82-1 1,2,4-trichlorobenzene	
REL	Ceiling limit value: 40 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 37 mg/m ³ , 5 ppm

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 11)

127-18-4 tetrachloroethylene

PEL	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 3 hrs
REL	Minimize workplace exp. concs.; Pocket Guide App. A
TLV	Short-term value: 685 mg/m ³ , 100 ppm Long-term value: 170 mg/m ³ , 25 ppm BEI, A3

630-20-6 1,1,1,2-Tetrachloroethane

REL	Handle with caution; See Pocket Guide App. C
-----	--

Ingredients with biological limit values:**67-56-1 methanol**

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
-----	---

71-43-2 benzene

BEI	25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background)
	500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

71-55-6 1,1,1-trichloroethane

BEI	20 ppm Medium: end-exhaled air Time: prior to shift at end of workweek Parameter: Methyl chloroform
	700 µg/L Medium: urine Time: end of shift Parameter: Methyl chloroform

75-09-2 dichloromethane

BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
-----	---

(Contd. on page 13)

— US —

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 12)

79-01-6 trichloroethylene

BEI 15 mg/L
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Trichloroacetic acid (nonspecific)

0.5 mg/L
 Medium: blood
 Time: end of shift at end of workweek
 Parameter: Trichloroethanol without hydrolysis (nonspecific)

-
 Medium: blood
 Time: end of shift at end of workweek
 Parameter: Trichloroethylene (semi-quantitative)

-
 Medium: end-exhaled air
 Time: end of shift at end of workweek
 Parameter: Trichloroethylene (semi-quantitative)

91-20-3 naphthalene

BEI -
 Medium: -
 Time: end of shift
 Parameter: 1-Naphthol with hydrolysis + 2-Naphthol with hydrolysis (Nq,Ns)

100-41-4 ethylbenzene

BEI 0.15 g/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

100-42-5 styrene

BEI 150 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Mandelic acid plus phenylglyoxylic acid (non-specific)

20 µg/L
 Medium: urine
 Time: end of shift
 Parameter: Styrene

(Contd. on page 14)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 13)

108-88-3 toluene	
BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
127-18-4 tetrachloroethylene	
BEI	3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethylene 0.5 mg/L Medium: blood Time: prior to shift Parameter: Tetrachloroethylene

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

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **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.

· **Breathing equipment:**

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.

(Contd. on page 15)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 14)

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

64.7 °C (148.5 °F)

· Flammability:

Highly flammable.

· Explosion limits:

· Lower:

5.5 Vol %

· Upper:

44 Vol %

· Flash point:

11 °C (51.8 °F)

· Auto igniting:

455 °C (851 °F)

· Decomposition temperature:

Not determined.

· pH-value:

Not determined.

· Viscosity:

· Kinematic:

Not determined.

· Dynamic:

Not determined.

· Solubility in / Miscibility with

· Water:

Fully miscible.

· Partition coefficient (n-octanol/water):

Not determined.

· Vapor pressure at 20 °C (68 °F):

128 hPa (96 mm Hg)

· Vapor pressure:

· Density:

Not determined.

· Relative density

Not determined.

· Vapor density

Not determined.

· Particle characteristics

Not applicable.

· Other information

· Appearance:

· Form:

Fluid

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Solvent content:

· Organic solvents:

94.8 %

· VOC content:

94.20 %

942.0 g/l / 7.86 lb/gal

· Solids content:

0.8 %

(Contd. on page 16)

— US —

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 15)

- **Change in condition**
- **Evaporation rate** Not determined.

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:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	3.36 mg/l
------------	----------	-----------

67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
------	------	-------------------

Dermal	LD50	15,800 mg/kg (rabbit)
--------	------	-----------------------

56-23-5 carbon tetrachloride

Oral	LD50	2,350 mg/kg (rat)
------	------	-------------------

Dermal	LD50	5,070 mg/kg (rat)
--------	------	-------------------

67-66-3 trichloromethane

Oral	LD50	908 mg/kg (rat)
------	------	-----------------

Dermal	LD50	75 mg/kg (rat)
--------	------	----------------

71-43-2 benzene

Oral	LD50	4,894 mg/kg (rat)
------	------	-------------------

Dermal	LD50	48 mg/kg (mouse)
--------	------	------------------

Inhalative	LC50/4 h	9,980 mg/l (mouse)
------------	----------	--------------------

71-55-6 1,1,1-trichloroethane

Oral	LD50	10,300 mg/kg (rat)
------	------	--------------------

75-09-2 dichloromethane

Oral	LD50	1,600 mg/kg (rat)
------	------	-------------------

Inhalative	LC50/4 h	88 mg/l (rat)
------------	----------	---------------

75-35-4 1,1-dichloroethylene

Inhalative	LC50/4 h	6,350 mg/l (mouse)
------------	----------	--------------------

78-87-5 1,2-dichloropropane

Oral	LD50	2,196 mg/kg (rat)
------	------	-------------------

Dermal	LD50	8,750 mg/kg (rabbit)
--------	------	----------------------

(Contd. on page 17)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 16)

79-01-6 trichloroethylene		
Oral	LD50	2,402 mg/kg (mouse)
Dermal	LD50	8,450 mg/kg (mouse)
79-34-5 1,1,2,2-tetrachloroethane		
Oral	LD50	800 mg/kg (rat)
91-20-3 naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
96-12-8 1,2-dibromo-3-chloropropane		
Oral	LD50	170 mg/kg (rat)
Dermal	LD50	1,420 mg/kg (rat)
96-18-4 1,2,3-trichloropropane		
Oral	LD50	320 mg/kg (rat)
Dermal	LD50	1,770 mg/kg (rabbit)
98-82-8 Cumene		
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)
103-65-1 propylbenzene		
Oral	LD50	6,040 mg/kg (rat)
106-46-7 1,4-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
106-93-4 1,2-dibromoethane		
Oral	LD50	108 mg/kg (rat)
Dermal	LD50	300 mg/kg (rabbit)
107-06-2 1,2-dichloroethane		
Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2,800 mg/kg (rat)
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
120-82-1 1,2,4-trichlorobenzene		
Oral	LD50	756 mg/kg (rat)
127-18-4 tetrachloroethylene		
Oral	LD50	2,629 mg/kg (rat)

(Contd. on page 18)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 17)

- **Primary irritant effect:**
- **on the skin:** No 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
 The product can cause inheritable damage.
- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
56-23-5	carbon tetrachloride	2B
67-66-3	trichloromethane	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	1,2-dichloropropane	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	Cumene	2B
100-41-4	ethylbenzene	2B
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

- **NTP (National Toxicology Program)**

56-23-5	carbon tetrachloride	R
67-66-3	trichloromethane	R

(Contd. on page 19)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 18)

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	Cumene	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

· **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	benzene
75-09-2	dichloromethane
96-12-8	1,2-dibromo-3-chloropropane

· **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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
---------	--------------------------

- **Other adverse effects**
- **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.

13 Disposal considerations

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

(Contd. on page 20)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 19)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	UN1992
· UN proper shipping name	
· DOT	Flammable liquids, toxic, n.o.s. (Methanol)
· IMDG	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)
· IATA	Flammable liquid, toxic, n.o.s. (METHANOL)
· Transport hazard class(es)	
· DOT	
	
· 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, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L

(Contd. on page 21)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 20)

· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	336
· EMS Number:	F-E,S-D
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL), 3 (6.1), II

*15 Regulatory information

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion-sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

This product contains Trichloroethylene (CAS No. 79-01-6), which is subject to risk management restrictions under the U.S. Toxic Substances Control Act (TSCA) Section 6(a), per EPA's final rule published on March 19, 2024 (89 FR 19446; 40 CFR Part 751, Subpart C).

Effective June 16, 2025, domestic manufacture, import, processing, and distribution in commerce of trichloroethylene are prohibited, except for specific conditions of use and time-limited exemptions. This product is intended solely for use as a laboratory reference standard. Laboratory uses essential for research and development and quality control are permitted under the TSCA exemption for laboratory use (40 CFR 751.407(e)(6)), and may continue until December 18, 2074. Users must ensure that this product is used exclusively in laboratory settings, in accordance with applicable federal, state, and local regulations.

· **Sara**

· Section 355 (extremely hazardous substances):	
67-66-3	trichloromethane
75-34-3	1,1-dichloroethane
· Section 313 (Specific toxic chemical listings):	
67-56-1	methanol
56-23-5	carbon tetrachloride
67-66-3	trichloromethane

(Contd. on page 22)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 21)

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	1,2-dichloropropane
79-00-5	1,1,2-trichloroethane
79-01-6	trichloroethylene
79-34-5	1,1,2,2-tetrachloroethane
87-61-6	1,2,3-trichlorobenzene
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	Cumene
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

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	trichloromethane	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	1,2-dichloropropane	ACTIVE

(Contd. on page 23)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 22)

79-00-5	1,1,2-trichloroethane	ACTIVE
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	Cumene	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	trichloromethane
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	1,2-dichloropropane
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	Cumene
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

(Contd. on page 24)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 23)

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	trichloromethane
71-43-2	benzene
71-55-6	1,1,1-trichloroethane
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	1,2-dichloropropane
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	Cumene
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	trichloromethane
71-43-2	benzene
79-01-6	trichloroethylene

(Contd. on page 25)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 24)

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	trichloromethane	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	Cumene	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
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	trichloromethane	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

(Contd. on page 26)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 25)

75-35-4	1,1-dichloroethylene	A4
78-87-5	1,2-dichloropropane	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	trichloromethane
71-43-2	benzene
75-09-2	dichloromethane
75-35-4	1,1-dichloroethylene
78-87-5	1,2-dichloropropane
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 27)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 26)

· **Hazard pictograms**· **Signal word** *Danger*· **Hazard-determining components of labeling:***methanol**benzene**1,2-dibromo-3-chloropropane**carbon tetrachloride**hexachlorobuta-1,3-diene**(Z)-1,3-dichloropropene**(E)-1,3-dichloroprop-1-ene*· **Hazard statements***Highly flammable liquid and vapor.**Toxic if inhaled.**May cause an allergic skin reaction.**May cause genetic defects.**May cause cancer.**May damage fertility or the unborn child.**Causes damage to the central nervous system and the visual organs.**May cause damage to organs through prolonged or repeated exposure.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**Ground / bond container and receiving equipment.**Use explosion-proof [electrical/ventilating/lighting] equipment.**Use non-sparking tools.**Take action to prevent static discharge.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**If inhaled: Remove person to fresh air and keep comfortable for breathing.**IF exposed or concerned: Get medical advice/attention.**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**Specific treatment (see on this label).**In case of fire: Use CO₂, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 28)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: VOC-M54C-A1

(Contd. of page 27)

- **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:** Environment protection department.
- **Contact:** - Department Technical Manager
- **Date of previous version** 09/09/2025
- **Date of preparation** 06/30/2026
- **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
 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
 Reproductive toxicity 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
- *** Data compared to the previous version altered.**

— US —