

1 Identification

· Product identifier

· **Product Name:** REV 4.0 Add-Ons

· **Part Number:** ECS-B-046XP

· **Application of the substance / the mixture** For Laboratory Use Only

· **Uses advised against** Not for Human or Animal Use

· 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

Carcinogenicity 2

H351

Suspected of causing cancer.

Toxic to Reproduction 1B

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 1

H372-H373

Causes damage to the blood through prolonged or repeated exposure. May cause damage to the central nervous system, the kidneys and the cardiovascular system through prolonged or repeated exposure.



GHS07

Acute Toxicity - Oral 4

H302

Harmful if swallowed.

Acute Toxicity - Dermal 4

H312

Harmful in contact with skin.

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
nitrobenzene
methacrylonitrile

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 1)

chloroacetonitrile
methyl methacrylate
acrylonitrile
methyl acrylate
ethyl methacrylate

Hazard statements

H225 Highly flammable liquid and vapor.
H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H370 Causes damage to the central nervous system and the visual organs.
H372-H373 Causes damage to the blood through prolonged or repeated exposure. May cause damage to the central nervous system, the kidneys and the cardiovascular system 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.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
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.
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: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

67-56-1	methanol	87.0%
107-14-2	chloroacetonitrile	4.0%
98-95-3	nitrobenzene	2.0%
107-12-0	propanenitrile	2.0%
78-99-9	1,1-Dichloropropane	1.0%
79-46-9	2-nitropropane	0.4%
80-62-6	methyl methacrylate	0.4%
107-13-1	acrylonitrile	0.4%
109-99-9	tetrahydrofuran	0.4%
67-72-1	hexachloroethane	0.2%
74-88-4	iodomethane	0.2%
75-15-0	carbon disulphide	0.2%

(Contd. on page 3)

Product Name: REV 4.0 Add-Ons

(Contd. of page 2)

96-33-3	methyl acrylate	0.2%
97-63-2	ethyl methacrylate	0.2%
107-05-1	3-chloropropene	0.2%
126-98-7	methacrylonitrile	0.2%
1634-04-4	Methyl-tert-butyl ether	0.2%
Chemical identification of the substance/preparation		
110-57-6	(2E)-1,4-dichloro-2-butene	0.4%
60-29-7	diethyl ether	0.2%
109-69-3	1-chlorobutane	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.

· **After swallowing:**

Immediately call a doctor.

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:** 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.

· **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
107-14-2	chloroacetonitrile	0.45 ppm
98-95-3	nitrobenzene	3 ppm
107-12-0	propanenitrile	0.27 ppm
78-99-9	1,1-Dichloropropane	2.6 ppm
79-46-9	2-nitropropane	30 ppm
80-62-6	methyl methacrylate	17 ppm
107-13-1	acrylonitrile	0.15 ppm

(Contd. on page 4)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

		(Contd. of page 3)
109-99-9	tetrahydrofuran	100 ppm
110-57-6	(2E)-1,4-dichloro-2-butene	0.078 ppm
60-29-7	diethyl ether	500 ppm
67-72-1	hexachloroethane	3 ppm
74-88-4	iodomethane	25 ppm
75-15-0	carbon disulphide	13 ppm
96-33-3	methyl acrylate	6 ppm
97-63-2	ethyl methacrylate	5.5 ppm
107-05-1	3-chloropropene	2.8 ppm
109-69-3	1-chlorobutane	4.1 ppm
126-98-7	methacrylonitrile	0.091 ppm
1634-04-4	Methyl-tert-butyl ether	50 ppm

· PAC-2:		
67-56-1	methanol	2,100 ppm
107-14-2	chloroacetonitrile	5.0 ppm
98-95-3	nitrobenzene	20 ppm
107-12-0	propanenitrile	3.0 ppm
78-99-9	1,1-Dichloropropane	29 ppm
79-46-9	2-nitropropane	380 ppm
80-62-6	methyl methacrylate	120 ppm
107-13-1	acrylonitrile	1.7 ppm
109-99-9	tetrahydrofuran	500 ppm
110-57-6	(2E)-1,4-dichloro-2-butene	0.86 ppm
60-29-7	diethyl ether	3200* ppm
67-72-1	hexachloroethane	36 ppm
74-88-4	iodomethane	50 ppm
75-15-0	carbon disulphide	160 ppm
96-33-3	methyl acrylate	170 ppm
97-63-2	ethyl methacrylate	61 ppm
107-05-1	3-chloropropene	54 ppm
109-69-3	1-chlorobutane	45 ppm
126-98-7	methacrylonitrile	1.0 ppm
1634-04-4	Methyl-tert-butyl ether	570 ppm

· PAC-3:		
67-56-1	methanol	7200* ppm
107-14-2	chloroacetonitrile	15 ppm
98-95-3	nitrobenzene	200 ppm
107-12-0	propanenitrile	9.1 ppm
78-99-9	1,1-Dichloropropane	170 ppm
79-46-9	2-nitropropane	2,300 ppm
80-62-6	methyl methacrylate	570 ppm
107-13-1	acrylonitrile	28 ppm
109-99-9	tetrahydrofuran	5000* ppm
110-57-6	(2E)-1,4-dichloro-2-butene	3.8 ppm
60-29-7	diethyl ether	19000*** ppm
67-72-1	hexachloroethane	300 ppm
74-88-4	iodomethane	125 ppm
75-15-0	carbon disulphide	480 ppm
96-33-3	methyl acrylate	1,000 ppm
97-63-2	ethyl methacrylate	370 ppm
107-05-1	3-chloropropene	140 ppm
109-69-3	1-chlorobutane	340 ppm
126-98-7	methacrylonitrile	3.1 ppm
1634-04-4	Methyl-tert-butyl ether	5300* ppm

(Contd. on page 5)

Product Name: REV 4.0 Add-Ons

(Contd. of page 4)

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 section 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.

67-56-1 methanol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
98-95-3 nitrobenzene	
PEL	Long-term value: 5 mg/m ³ , 1 ppm Skin
REL	Long-term value: 5 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 1 ppm Skin; BEIm, A3
107-12-0 propanenitrile	
PEL	Long-term value: 5 mg/m ³ as CN; Skin
REL	Long-term value: 14 mg/m ³ , 6 ppm
79-46-9 2-nitropropane	
PEL	Long-term value: 90 mg/m ³ , 25 ppm
REL	See Pocket Guide App. A
TLV	Long-term value: 10 ppm A3
80-62-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
107-13-1 acrylonitrile	
PEL	Long-term value: 2 ppm Ceiling limit value: 10* ppm *15 Min., Skin; see 29 CFR 1910.1045
REL	Long-term value: 1 ppm Ceiling limit value: 10* ppm *15-min; Skin; See Pocket Guide App. A

(Contd. on page 6)

Product Name: REV 4.0 Add-Ons

(Contd. of page 5)

TLV	Long-term value: 2 ppm Skin, A3
109-99-9 tetrahydrofuran	
PEL	Long-term value: 590 mg/m ³ , 200 ppm
REL	Short-term value: 735 mg/m ³ , 250 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm Skin, A3, BEI
67-72-1 hexachloroethane	
PEL	Long-term value: 10 mg/m ³ , 1 ppm Skin
REL	Long-term value: 10 mg/m ³ , 1 ppm Skin; See Pocket Guide Apps. A and C
TLV	Long-term value: 1 ppm Skin, A3
74-88-4 iodomethane	
PEL	Long-term value: 28 mg/m ³ , 5 ppm Skin
REL	Long-term value: 10 mg/m ³ , 2 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 2 ppm Skin
75-15-0 carbon disulphide	
PEL	Long-term value: 20 ppm Ceiling limit value: 30; 100* ppm *30-min peak per 8-hr shift
REL	Short-term value: 30 mg/m ³ , 10 ppm Long-term value: 3 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 1 ppm Skin, BEI, A4
96-33-3 methyl acrylate	
PEL	Long-term value: 35 mg/m ³ , 10 ppm Skin
REL	Long-term value: 35 mg/m ³ , 10 ppm Skin
TLV	Long-term value: 2 ppm Skin; DSEN, A4
107-05-1 3-chloropropene	
PEL	Long-term value: 3 mg/m ³ , 1 ppm
REL	Short-term value: 6 mg/m ³ , 2 ppm Long-term value: 3 mg/m ³ , 1 ppm
TLV	Short-term value: 2 ppm Long-term value: 1 ppm Skin, A3
126-98-7 methacrylonitrile	
REL	Long-term value: 3 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 1 ppm Skin, A4
1634-04-4 Methyl-tert-butyl ether	
TLV	Long-term value: 50 ppm A3
Ingredients with biological limit values:	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

(Contd. on page 7)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 6)

98-95-3 nitrobenzene	
BEI	5 % of hemoglobin Medium: blood Time: during or end of shift Parameter: Methemoglobin (background, nonspecific,)
109-99-9 tetrahydrofuran	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: Tetrahydrofuran
75-15-0 carbon disulphide	
BEI	0.5 mg/g creatinine Medium: urine Time: end of shift Parameter: 2-Thioxothiazolidine-4-carboxylic acid (background, nonspecific)

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

· **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.

Avoid contact with the eyes and skin.

· **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.

· **Auto igniting:** 455 °C (851 °F)

(Contd. on page 8)

Product Name: REV 4.0 Add-Ons

(Contd. of page 7)

· Decomposition temperature:	Not applicable.
· Ignition temperature:	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.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	88.4 %
VOC content:	88.40 %
Solids content:	0.2 %
· Other information	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:**

· LD/LC50 values that are relevant for classification:		
67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
107-14-2 chloroacetonitrile		
Oral	LD50	220 mg/kg (rat)
Dermal	LD50	71 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
Harmful
Irritant
Product is suspected to cause damage to fertility.
Product is suspected to cause birth defects.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)			
107-14-2	chloroacetonitrile		3
98-95-3	nitrobenzene		2B
79-46-9	2-nitropropane		2B

(Contd. on page 9)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 8)

80-62-6	methyl methacrylate	3
107-13-1	acrylonitrile	2B
109-99-9	tetrahydrofuran	2B
110-57-6	(2E)-1,4-dichloro-2-butene	3
67-72-1	hexachloroethane	2B
74-88-4	iodomethane	3
96-33-3	methyl acrylate	2B
107-05-1	3-chloropropene	3
1634-04-4	Methyl-tert-butyl ether	3
· NTP (National Toxicology Program)		
98-95-3	nitrobenzene	R
79-46-9	2-nitropropane	R
107-13-1	acrylonitrile	R
67-72-1	hexachloroethane	R
· OSHA-Ca (Occupational Safety & Health Administration)		
107-13-1	acrylonitrile	



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**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1230
· UN proper shipping name	
· DOT	Methanol
· ADR	1230 METHANOL
· IMDG, IATA	METHANOL
· Transport hazard class(es)	
· DOT	
 	
· Class	3 Flammable liquids







(Contd. on page 10)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 9)

· 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	II
· 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 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml 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** No further relevant information available.
- **Sara**

· Section 313 (Specific toxic chemical listings):	
67-56-1	methanol
98-95-3	nitrobenzene
79-46-9	2-nitropropane
80-62-6	methyl methacrylate
107-13-1	acrylonitrile
110-57-6	(2E)-1,4-dichloro-2-butene
67-72-1	hexachloroethane
74-88-4	iodomethane
75-15-0	carbon disulphide

(Contd. on page 11)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 10)

96-33-3	methyl acrylate
107-05-1	3-chloropropene
126-98-7	methacrylonitrile
1634-04-4	Methyl-tert-butyl ether

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

67-56-1	methanol	ACTIVE
107-14-2	chloroacetonitrile	ACTIVE
98-95-3	nitrobenzene	ACTIVE
107-12-0	propanenitrile	ACTIVE
79-46-9	2-nitropropane	ACTIVE
80-62-6	methyl methacrylate	ACTIVE
107-13-1	acrylonitrile	ACTIVE
109-99-9	tetrahydrofuran	ACTIVE
110-57-6	(2E)-1,4-dichloro-2-butene	ACTIVE
60-29-7	diethyl ether	ACTIVE
67-72-1	hexachloroethane	ACTIVE
74-88-4	iodomethane	ACTIVE
75-15-0	carbon disulphide	ACTIVE
96-33-3	methyl acrylate	ACTIVE
97-63-2	ethyl methacrylate	ACTIVE
107-05-1	3-chloropropene	ACTIVE
109-69-3	1-chlorobutane	ACTIVE
126-98-7	methacrylonitrile	ACTIVE
1634-04-4	Methyl-tert-butyl ether	ACTIVE

· **Hazardous Air Pollutants**

67-56-1	methanol
98-95-3	nitrobenzene
79-46-9	2-nitropropane
80-62-6	methyl methacrylate
107-13-1	acrylonitrile
67-72-1	hexachloroethane
74-88-4	iodomethane
75-15-0	carbon disulphide
107-05-1	3-chloropropene
1634-04-4	Methyl-tert-butyl ether

· **Proposition 65**

· **Chemicals known to cause cancer:**

98-95-3	nitrobenzene
79-46-9	2-nitropropane
107-13-1	acrylonitrile
109-99-9	tetrahydrofuran
67-72-1	hexachloroethane
74-88-4	iodomethane
96-33-3	methyl acrylate

· **Chemicals known to cause reproductive toxicity for females:**

75-15-0	carbon disulphide
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· **Chemicals known to cause reproductive toxicity for males:**

98-95-3	nitrobenzene
75-15-0	carbon disulphide

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
75-15-0	carbon disulphide

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

98-95-3	nitrobenzene	L
80-62-6	methyl methacrylate	E, NL

(Contd. on page 12)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 11)

107-13-1	acrylonitrile	B1
109-99-9	tetrahydrofuran	SC
67-72-1	hexachloroethane	L
96-33-3	methyl acrylate	D
107-05-1	3-chloropropene	C
109-69-3	1-chlorobutane	D

· TLV (Threshold Limit Value)

98-95-3	nitrobenzene	A3
79-46-9	2-nitropropane	A3
80-62-6	methyl methacrylate	A4
107-13-1	acrylonitrile	A3
109-99-9	tetrahydrofuran	A3
67-72-1	hexachloroethane	A3
75-15-0	carbon disulphide	A4
96-33-3	methyl acrylate	A4
107-05-1	3-chloropropene	A3
1634-04-4	Methyl-tert-butyl ether	A3

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

79-46-9	2-nitropropane
107-13-1	acrylonitrile
67-72-1	hexachloroethane
74-88-4	iodomethane

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

methanol
nitrobenzene
methacrylonitrile
chloroacetonitrile
methyl methacrylate
acrylonitrile
methyl acrylate
ethyl methacrylate

· Hazard statements

H225 Highly flammable liquid and vapor.
H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H370 Causes damage to the central nervous system and the visual organs.
H372-H373 Causes damage to the blood through prolonged or repeated exposure. May cause damage to the central nervous system, the kidneys and the cardiovascular system 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.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
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.
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.

(Contd. on page 13)

Printing date 04/22/2024

Reviewed on 04/22/2024

Product Name: REV 4.0 Add-Ons

(Contd. of page 12)

- P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **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** 04/22/2024

· **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

BEL: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

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

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

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