

1 Identification

- **Product identifier**
- **Trade name:** 40463 Low VOC Undercoating
- **Article number:** 40463
- **Application of the substance / the mixture** Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SEM Products Inc.
1685 Overview Drive
Rock Hill, SC 29730
803 207 8225
- **Information department:**
cust_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- **Emergency telephone number:** CHEMTREC 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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STOT SE 3 H335 May cause respiratory irritation.

· **Label elements**

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

· **Hazard pictograms**



GHS02 GHS04 GHS06 GHS07 GHS08

· **Signal word** *Danger*

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

Asphalt

Solvent naphtha (petroleum), light aliph.

toluene

methanol

· **Hazard statements**

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H340 May cause genetic defects.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P331 Do NOT induce vomiting.

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P332+P313 *If skin irritation occurs: Get medical advice/attention.*
P337+P313 *If eye irritation persists: Get medical advice/attention.*
P362+P364 *Take off contaminated clothing and wash it before reuse.*
P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
P405 *Store locked up.*
P410+P403 *Protect from sunlight. Store in a well-ventilated place.*
P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*
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: consisting of the following components.

Weight percentages

· **Dangerous components:**

8052-42-4	Asphalt	30 - 40%
68476-86-8	Petroleum gases, liquefied, sweetened	13 - 30%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	7 - 10%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	5 - 7%
64742-89-8	Solvent naphtha (petroleum), light aliph.	5 - 7%
14807-96-6	Talc	1.5 - 5%
68911-87-5	montmorillonite clay complex	1.5 - 5%
7727-43-7	barium sulphate, natural	1.5 - 5%
108-88-3	toluene	1.5 - 5%
79-20-9	methyl acetate	1.5 - 5%
67-64-1	acetone	1.5 - 5%
67-56-1	methanol	1-1.5%

USA

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4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:** 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. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
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-1:**

8052-42-4	Asphalt	30 mg/m ³
7727-43-7	barium sulphate, natural	15 mg/m ³
108-88-3	toluene	67 ppm
79-20-9	methyl acetate	250 ppm
67-64-1	acetone	200 ppm
67-56-1	methanol	530 ppm
1333-86-4	Carbon black	9 mg/m ³

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· **PAC-2:**

8052-42-4	Asphalt	330 mg/m ³
7727-43-7	barium sulphate, natural	170 mg/m ³
108-88-3	toluene	560 ppm
79-20-9	methyl acetate	1,700 ppm
67-64-1	acetone	3200* ppm
67-56-1	methanol	2,100 ppm
1333-86-4	Carbon black	99 mg/m ³

· **PAC-3:**

8052-42-4	Asphalt	2,000 mg/m ³
7727-43-7	barium sulphate, natural	990 mg/m ³
108-88-3	toluene	3700* ppm
79-20-9	methyl acetate	10000* ppm
67-64-1	acetone	5700* ppm
67-56-1	methanol	7200* ppm
1333-86-4	Carbon black	590 mg/m ³

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **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.

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8052-42-4 Asphalt

REL Ceiling limit value: 5* mg/m³
*15-min; See Pocket Guide App. A

TLV Long-term value: 0.5* mg/m³
*inh. fraction; as benzene-soluble aerosol; BEIp

7727-43-7 barium sulphate, natural

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 5* mg/m³
*inhalable fraction; E

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/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 75 mg/m³, 20 ppm
BEI

79-20-9 methyl acetate

PEL Long-term value: 610 mg/m³, 200 ppm

REL Short-term value: 760 mg/m³, 250 ppm
Long-term value: 610 mg/m³, 200 ppm

TLV Short-term value: 757 mg/m³, 250 ppm
Long-term value: 606 mg/m³, 200 ppm

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm
Long-term value: 594 mg/m³, 250 ppm
BEI

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

· Ingredients with biological limit values:

8052-42-4 Asphalt

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BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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)
67-64-1 acetone	
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (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.

· **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:**

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



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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:	Aerosol
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	139 °C

· **Flash point:** -103 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 265 °C

· **Decomposition temperature:** Not determined.

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

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

Lower:	1.9 Vol %
Upper:	9.5 Vol %

· **Vapor pressure:** Not determined.

· **Density at 20 °C:** 0.85628 g/cm³

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 51.1 %
 - Water:** 0.1 %
 - VOC content:** 38.6 %
365.8 g/l / 3.05 lb/gl
- **Solids content:** 49.9 %
- **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:**

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect:**
 - on the skin:** Irritant to skin and mucous membranes.
 - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

8052-42-4	Asphalt	2B
14807-96-6	Talc	3
108-88-3	toluene	3
1333-86-4	Carbon black	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

68911-87-5	montmorilontie clay complex
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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:**

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.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1950

· **UN proper shipping name**

· **DOT** Aerosols, flammable

· **ADR** 1950 Aerosols

· **IMDG** AEROSOLS

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Trade name: 40463 Low VOC Undercoating

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· **IATA** AEROSOLS, flammable

· **Transport hazard class(es)**

· **DOT**



· **Class** 2.1

· **Label** 2.1

· **ADR**



· **Class** 2 5F Gases

· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1

· **Label** 2.1

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user**

Warning: Gases

· **EMS Number:**

F-D,S-U

· **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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· **Transport/Additional information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

· **ADR**· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **IMDG**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

* **15 Regulatory information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

14807-96-6 Talc

7727-43-7 barium sulphate, natural

108-88-3 toluene

67-56-1 methanol

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

8052-42-4 Asphalt

98-56-6 4-chloro-alpha,alpha,alpha-trifluorotoluene

64742-88-7 Solvent naphtha (petroleum), medium aliph.

64742-89-8 Solvent naphtha (petroleum), light aliph.

14807-96-6 Talc

68911-87-5 montmorillonite clay complex

7727-43-7 barium sulphate, natural

108-88-3 toluene

79-20-9 methyl acetate

67-64-1 acetone

69430-35-9 Alicyclic hydrocarbon resin

9017-27-0 Alpha-methyl styrene/vinyl toluene copolymer

67-56-1 methanol

66070-58-4 Styrene-Ethylene/Butylene-Styrene block Copolymer

1333-86-4 Carbon black

8042-47-5 White Mineral oil

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6683-19-8	Tertrakis(methylene(3,5-di(tert)-butyl-4-hydroxyhydrocinnamate)) methane
84633-54-5	Pentaerythritol tris tri ester with 3-(3,5-di-(tert)-butyl-4-hydroxyphenyl)propionic acid
7732-18-5	water

· **Proposition 65**

· **Chemicals known to cause cancer:**

8052-42-4	Asphalt
1333-86-4	Carbon black

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

108-88-3	toluene
67-56-1	methanol

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
108-88-3	toluene	II
67-64-1	acetone	I

· **TLV (Threshold Limit Value established by ACGIH)**

8052-42-4	Asphalt	A4
14807-96-6	Talc	A4
108-88-3	toluene	A4
67-64-1	acetone	A4
1333-86-4	Carbon black	A4

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

8052-42-4	Asphalt
67-56-1	methanol
1333-86-4	Carbon black

· **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:**

Asphalt
Solvent naphtha (petroleum), light aliph.
toluene
methanol

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· Hazard statements

- H222 *Extremely flammable aerosol.*
 H280 *Contains gas under pressure; may explode if heated.*
 H301 *Toxic if swallowed.*
 H315 *Causes skin irritation.*
 H319 *Causes serious eye irritation.*
 H340 *May cause genetic defects.*
 H350 *May cause cancer.*
 H361 *Suspected of damaging fertility or the unborn child.*
 H335 *May cause respiratory irritation.*
 H372-H373 *Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.*
 H304 *May be fatal if swallowed and enters airways.*

· Precautionary statements

- P201 *Obtain special instructions before use.*
 P202 *Do not handle until all safety precautions have been read and understood.*
 P210 *Keep away from heat/sparks/open flames/hot surfaces. No smoking.*
 P211 *Do not spray on an open flame or other ignition source.*
 P251 *Do not pierce or burn, even after use.*
 P260 *Do not breathe dust/fume/gas/mist/vapors/spray.*
 P264 *Wash thoroughly after handling.*
 P270 *Do not eat, drink or smoke when using this product.*
 P271 *Use only outdoors or in a well-ventilated area.*
 P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
 P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
 P302+P352 *IF ON SKIN: Wash with plenty of water.*
 P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
 P305+P351+P338 *If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
 P308+P313 *IF exposed or concerned: Get medical advice/attention.*
 P312 *Call a POISON CENTER/doctor if you feel unwell.*
 P314 *Get medical advice/attention if you feel unwell.*
 P321 *Specific treatment (see on this label).*
 P330 *Rinse mouth.*
 P331 *Do NOT induce vomiting.*
 P332+P313 *If skin irritation occurs: Get medical advice/attention.*
 P337+P313 *If eye irritation persists: Get medical advice/attention.*
 P362+P364 *Take off contaminated clothing and wash it before reuse.*
 P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
 P405 *Store locked up.*
 P410+P403 *Protect from sunlight. Store in a well-ventilated place.*
 P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· National regulations:
· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· 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.

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· **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:** Steve Gaver (sgaver@semproducts.com)

· **Date of preparation / last revision** 06/28/2017 / 13

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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

Flam. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Compressed gas

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

USA