

## 1 Identification

- **Product identifier**
- **Trade name:** 52008 2K Chip Guard
- **Article number:** 52008
- **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 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 1A H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
methyl acetate  
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

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4-chloro-alpha,alpha,alpha-trifluorotoluene  
dibutyltin dilaurate

**Hazard statements**

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

**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.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- 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)**



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- **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:**

79-20-9	methyl acetate	13-30%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	13-30%
14807-96-6	Talc	10-13%
67-64-1	acetone	5-7%
	POLYESTER RESIN	5-7%
110-43-0	heptan-2-one	1.5-5%
123-86-4	n-butyl acetate	1.5-5%
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.5-<3%
7631-86-9	silicon dioxide, chemically prepared	1-1.5%
763-69-9	ethyl 3-ethoxypropionate	1-1.5%
77-58-7	dibutyltin dilaurate	≥0.1-<1%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

79-20-9	methyl acetate	250 ppm
67-64-1	acetone	200 ppm
110-43-0	heptan-2-one	150 ppm
123-86-4	n-butyl acetate	5 ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9.3 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>
763-69-9	ethyl 3-ethoxypropionate	1.6 ppm
1330-20-7	xylene	130 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m <sup>3</sup>
111-76-2	2-butoxyethanol	60 ppm
108-88-3	toluene	67 ppm
100-41-4	ethylbenzene	33 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm
67-63-0	propan-2-ol	400 ppm
91-20-3	naphthalene	15 ppm

· **PAC-2:**

79-20-9	methyl acetate	1,700 ppm
67-64-1	acetone	3200* ppm
110-43-0	heptan-2-one	670 ppm
123-86-4	n-butyl acetate	200 ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	100 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>
763-69-9	ethyl 3-ethoxypropionate	18 ppm
1330-20-7	xylene	920* ppm
77-58-7	dibutyltin dilaurate	8 mg/m <sup>3</sup>
111-76-2	2-butoxyethanol	120 ppm

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108-88-3	toluene	560 ppm
100-41-4	ethylbenzene	1100* ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm
67-63-0	propan-2-ol	2000* ppm
91-20-3	naphthalene	83 ppm
<b>· PAC-3:</b>		
79-20-9	methyl acetate	10000* ppm
67-64-1	acetone	5700* ppm
110-43-0	heptan-2-one	4000* ppm
123-86-4	n-butyl acetate	3000* ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	230 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
763-69-9	ethyl 3-ethoxypropionate	110 ppm
1330-20-7	xylene	2500* ppm
77-58-7	dibutyltin dilaurate	48 mg/m <sup>3</sup>
111-76-2	2-butoxyethanol	700 ppm
108-88-3	toluene	3700* ppm
100-41-4	ethylbenzene	1800* ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
67-63-0	propan-2-ol	12000** ppm
91-20-3	naphthalene	500 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
No special measures required.  
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.

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**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.

**79-20-9 methyl acetate**

PEL Long-term value: 610 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 610 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 757 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 606 mg/m<sup>3</sup>, 200 ppm

**67-64-1 acetone**

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 594 mg/m<sup>3</sup>, 250 ppm  
BEI

**110-43-0 heptan-2-one**

PEL Long-term value: 465 mg/m<sup>3</sup>, 100 ppm

REL Long-term value: 465 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 233 mg/m<sup>3</sup>, 50 ppm

**123-86-4 n-butyl acetate**

PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppm

REL Short-term value: 950 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 710 mg/m<sup>3</sup>, 150 ppm

TLV Short-term value: 712 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 238 mg/m<sup>3</sup>, 50 ppm

**77-58-7 dibutyltin dilaurate**

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn

REL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn, Skin

TLV Short-term value: 0.2 mg/m<sup>3</sup>  
Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn; Skin

· **Ingredients with biological limit values:**

**67-64-1 acetone**

BEI 50 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Acetone (nonspecific)

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

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- **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

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:	Liquid
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:	57 °C
- **Flash point:** -18 °C

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· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	370 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	In use, may form flammable/explosive vapour-air mixture.
· <b>Explosion limits:</b>	
Lower:	2.6 Vol %
Upper:	13 Vol %
· <b>Vapor pressure at 20 °C:</b>	233 hPa
· <b>Density at 20 °C:</b>	1.21685 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	43.1 %
VOC content:	8.14 %
	169.9 g/l / 1.42 lb/gal
Solids content:	56.7 %
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

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

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

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- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories**

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

14807-96-6	Talc	3
7631-86-9	silicon dioxide, chemically prepared	3
1330-20-7	xylene	3
111-76-2	2-butoxyethanol	3
108-88-3	toluene	3
100-41-4	ethylbenzene	2B
67-63-0	propan-2-ol	3
91-20-3	naphthalene	2B

· **NTP (National Toxicology Program)**

91-20-3	naphthalene	R
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**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 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

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**14 Transport information**

· UN-Number	UN1263
· DOT, ADR, IMDG, IATA	
· UN proper shipping name	Paint
· DOT	1263 Paint, special provision 640D
· ADR	PAINT
· IMDG, IATA	
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
<hr/>	
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	II
· DOT, ADR, IMDG, IATA	
· Environmental hazards:	No
· Marine pollutant:	
· Special precautions for user	Warning: Flammable liquids
· EMS Number:	F-E,S-E
· Stowage Category	B
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· Remarks	ORM-D 49CFR 173-150,156,306
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· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· IMDG	
· Limited quantities (LQ)	5L

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- |                                   |   |
|-----------------------------------|---|
| · <b>Excepted quantities (EQ)</b> | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>   | UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II  |

## 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):

	Acrylic Resin
14807-96-6	Talc
1330-20-7	xylene
111-76-2	2-butoxyethanol
108-88-3	toluene
100-41-4	ethylbenzene
67-63-0	propan-2-ol
91-20-3	naphthalene

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

79-20-9	methyl acetate
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
1317-65-3	GROUND CALCIUM CARBONATE
14807-96-6	Talc
67-64-1	acetone
110-43-0	heptan-2-one
123-86-4	n-butyl acetate
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
7631-86-9	silicon dioxide, chemically prepared
763-69-9	ethyl 3-ethoxypropionate
1330-20-7	xylene
77-58-7	dibutyltin dilaurate
4083-64-1	4-isocyanatosulphonyltoluene
9038-95-3	OXIRANE,ME, POLYMER
111-76-2	2-butoxyethanol
108-88-3	toluene
100-41-4	ethylbenzene
108-83-8	2,6-dimethylheptan-4-one
19549-80-5	4,6-dimethylheptan-2-one
64742-94-5	Solvent naphtha (petroleum), heavy arom.

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25322-17-2	naphthalenesulfonic acid, dinonyl
67-63-0	propan-2-ol
91-20-3	naphthalene
61789-77-3	Quaternary ammonium compounds, dicocoalkyldimethyl, chlorides

· **TSCA new (21st Century Act) (Substances not listed)**

POLYESTER RESIN

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene
91-20-3	naphthalene

· **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
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· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
1330-20-7	xylene	I
111-76-2	2-butoxyethanol	NL
108-88-3	toluene	II
100-41-4	ethylbenzene	D
91-20-3	naphthalene	C, CBD

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

14807-96-6	Talc	A4
67-64-1	acetone	A4
1330-20-7	xylene	A4
77-58-7	dibutyltin dilaurate	A4
111-76-2	2-butoxyethanol	A3
108-88-3	toluene	A4
100-41-4	ethylbenzene	A3
67-63-0	propan-2-ol	A4
91-20-3	naphthalene	A4

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

None of the ingredients is listed.

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

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word *Danger*

· Hazard-determining components of labeling:

*methyl acetate*  
*[3-(2,3-epoxypropoxy)propyl]trimethoxysilane*  
*4-chloro-alpha,alpha,alpha-trifluorotoluene*  
*dibutyltin dilaurate*

· Hazard statements

*H225 Highly flammable liquid and vapor.*  
*H315 Causes skin irritation.*  
*H319 Causes serious eye irritation.*  
*H350 May cause cancer.*  
*H360 May damage fertility or the unborn child.*  
*H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.*

· 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.*  
*P240 Ground/bond container and receiving equipment.*  
*P241 Use explosion-proof electrical/ventilating/lighting/equipment.*  
*P242 Use only non-sparking tools.*  
*P243 Take precautionary measures against static discharge.*  
*P261 Avoid breathing dust/fume/gas/mist/vapors/spray*  
*P264 Wash thoroughly after handling.*  
*P271 Use only outdoors or in a well-ventilated area.*  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
*P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
*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.*  
*P321 Specific treatment (see on this label).*  
*P362+P364 Take off contaminated clothing and wash it before reuse.*  
*P332+P313 If skin irritation occurs: Get medical advice/attention.*  
*P337+P313 If eye irritation persists: Get medical advice/attention.*  
*P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.*  
*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.*

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- **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.
- **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:** Rita Joiner (rjoiner@semproducts.com)
- **Date of preparation / last revision** 10/08/2018 / -
- **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)  
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. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Carc. 1A: Carcinogenicity – Category 1A  
Repr. 1A: Reproductive toxicity – Category 1A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **\* Data compared to the previous version altered.**