

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/05/2022

Reviewed on 10/05/2022

1 Identification

- **Product identifier**
- **Trade Name:** FUSA FLEX® 76593
- **Article number:** 76593
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Von Roll USA, Inc.
200 Von Roll Drive
SCHENECTADY, NY 12306
USA
- **Information department:** Environmental Health and Safety Department
- **Emergency telephone number:**
During normal opening hours (day-time): +1 (518) 344-7100
Mahoney 24 hours Emergency Message Service to contact EHS: +1 (518) 793-7788
For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC : +1 703-741-5970 / 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 1A

H350 May cause cancer.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.



GHS09 Environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

Aquatic Acute 2

H401 Toxic to aquatic life.

- **Label elements**

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

- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** Danger

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Hazard-determining components of labeling:
 phenol, polymer with formaldehyde, glycidyl ether
 Fibrous Glass
 toluene
 ethanol

phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis[oxirane]

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

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

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

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

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.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

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

P405 Store locked up.

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

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *2
 Fire = 0
 Reactivity = 0

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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 of the substances listed below with nonhazardous additions.

- **Dangerous components:**

65997-17-3	Fibrous Glass	≥20-≤25%
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	>2.5-≤10%
25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	>2.5-≤10%
108-88-3	toluene	≥0.1-≤2.5%
64-17-5	ethanol	≥0.1-≤2.5%

* 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a 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. 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:**
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** Not required.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

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· 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:**

65997-17-3	Fibrous Glass	15 mg/m ³
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	30 mg/m ³
25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis[oxirane]	12 mg/m ³
108-88-3	toluene	67 ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	18 mg/m ³
64-17-5	ethanol	1,800 ppm
301-10-0	stannous caprylate	0.68 mg/m ³
71-43-2	benzene	52 ppm
149-57-5	2-ethylhexanoic acid	15 mg/m ³

· PAC-2:

65997-17-3	Fibrous Glass	170 mg/m ³
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	330 mg/m ³
25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis[oxirane]	130 mg/m ³
108-88-3	toluene	560 ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	100 mg/m ³
64-17-5	ethanol	3300* ppm
301-10-0	stannous caprylate	110 mg/m ³
71-43-2	benzene	800 ppm
149-57-5	2-ethylhexanoic acid	99 mg/m ³

· PAC-3:

65997-17-3	Fibrous Glass	990 mg/m ³
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	2,000 mg/m ³
25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis[oxirane]	790 mg/m ³
108-88-3	toluene	3700* ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	630 mg/m ³
64-17-5	ethanol	15000* ppm
301-10-0	stannous caprylate	670 mg/m ³
71-43-2	benzene	4000* ppm
149-57-5	2-ethylhexanoic acid	590 mg/m ³

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **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.

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

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm A3

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· Ingredients with biological limit values:**108-88-3 toluene**

<i>BEI</i>	0.02 mg/L <i>Medium: blood</i> <i>Time: prior to last shift of workweek</i> <i>Parameter: Toluene</i>
	0.03 mg/L <i>Medium: urine</i> <i>Time: end of shift</i> <i>Parameter: Toluene</i>
	0.3 mg/g creatinine <i>Medium: urine</i> <i>Time: end of shift</i> <i>Parameter: o-Cresol with hydrolysis (background)</i>

· 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:***Protective gloves**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*

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* 9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:
Form: Solid material
Color: White, light yellow
· Odor: Characteristic
· Odor threshold: Not determined.
· pH-value: Not applicable.
· Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
· Flash point: Not applicable.
· Flammability (solid, gaseous): Not determined.
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
Lower: Not determined.
Upper: Not determined.
· Vapor pressure: Not applicable.
· Density: Not determined.
· Relative density Not determined.
· Vapor density Not applicable.
· Evaporation rate Not applicable.
· Solubility in / Miscibility with
Water: Insoluble.
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.
· Solvent content:
Organic solvents: 0.9 %
VOC content: 0.90 %
· 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.

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- Hazardous decomposition products:** No dangerous decomposition products known.

*	11 Toxicological information														
<ul style="list-style-type: none"> Information on toxicological effects Acute toxicity: 															
<ul style="list-style-type: none"> LD/LC50 values that are relevant for classification: 															
<p>ATE (Acute Toxicity Estimate)</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Dermal</td><td style="width: 10%;">LD50</td><td style="width: 80%;">17,323 mg/kg</td><td style="width: 10%;"></td></tr> </table>				Dermal	LD50	17,323 mg/kg									
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<p>108-88-3 toluene</p>															
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Oral	LD50	5,000 mg/kg (rat)													
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Inhalative	LC50/4 h	5,320 mg/l (mouse)													
<p>64-17-5 ethanol</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Oral</td><td style="width: 10%;">LD50</td><td style="width: 80%;">7,060 mg/kg (rat)</td><td style="width: 10%;"></td></tr> <tr> <td>Inhalative</td><td>LC50/4 h</td><td>20,000 mg/l (rat)</td><td></td></tr> </table>				Oral	LD50	7,060 mg/kg (rat)		Inhalative	LC50/4 h	20,000 mg/l (rat)					
Oral	LD50	7,060 mg/kg (rat)													
Inhalative	LC50/4 h	20,000 mg/l (rat)													
<ul style="list-style-type: none"> Primary irritant effect: 															
<ul style="list-style-type: none"> on the skin: Irritant to skin and mucous membranes. 															
<ul style="list-style-type: none"> on the eye: Irritating effect. 															
<ul style="list-style-type: none"> Sensitization: Sensitization possible through skin contact. 															
<ul style="list-style-type: none"> Additional toxicological information: 															
<p>The product shows the following dangers according to internally approved calculation methods for preparations: Irritant</p>															
<ul style="list-style-type: none"> Carcinogenic categories 															
<p>IARC (International Agency for Research on Cancer)</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">108-88-3</td><td style="width: 10%;">toluene</td><td style="width: 80%; text-align: right;">3</td><td style="width: 10%;"></td></tr> <tr> <td>64-17-5</td><td>ethanol</td><td style="text-align: right;">I</td><td></td></tr> <tr> <td>71-43-2</td><td>benzene</td><td style="text-align: right;">I</td><td></td></tr> </table>				108-88-3	toluene	3		64-17-5	ethanol	I		71-43-2	benzene	I	
108-88-3	toluene	3													
64-17-5	ethanol	I													
71-43-2	benzene	I													
<p>NTP (National Toxicology Program)</p>															
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<p>OSHA-Ca (Occupational Safety & Health Administration)</p>															
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71-43-2	benzene														

*	12 Ecological information					
<ul style="list-style-type: none"> Toxicity 						
<ul style="list-style-type: none"> Aquatic toxicity: No further relevant information available. 						
<ul style="list-style-type: none"> Persistence and degradability No further relevant information available. 						
<ul style="list-style-type: none"> Behavior in environmental systems: 						
<ul style="list-style-type: none"> Bioaccumulative potential No further relevant information available. 						
<ul style="list-style-type: none"> Mobility in soil No further relevant information available. 						
<ul style="list-style-type: none"> Ecotoxicological effects: 						
<ul style="list-style-type: none"> Remark: Toxic for fish 						
<ul style="list-style-type: none"> Additional ecological information: 						
<ul style="list-style-type: none"> General notes: 						
<p>Water hazard class 2 (Self-assessment): hazardous for water</p>						
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*Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms*

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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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, IMDG, IATA** not regulated
- **UN proper shipping name**
- **DOT, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **DOT, ADN, IMDG, IATA**
- **Class** not regulated
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

15 Regulatory information

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

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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

108-88-3	toluene
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71-43-2	benzene
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· TSCA (Toxic Substances Control Act):

68298-58-8	Non hazardous polyester	ACTIVE
65997-17-3	Fibrous Glass	ACTIVE
28064-14-4	phenol, polymer with formaldehyde, glycidyl ether	ACTIVE
25036-25-3	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[{(1-methylethylidene)bis(4,1-phenyleneoxymethylene)}bis[oxirane]	ACTIVE
63450-15-7	Polyvinyl formal resins	ACTIVE
68441-17-8	Oxidized Polyethylene	ACTIVE
108-88-3	toluene	ACTIVE
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	ACTIVE
64-17-5	ethanol	ACTIVE
301-10-0	stannous caprylate	ACTIVE
71-43-2	benzene	ACTIVE
149-57-5	2-ethylhexanoic acid	ACTIVE

· Hazardous Air Pollutants

108-88-3	toluene
71-43-2	benzene

· Proposition 65**· Chemicals known to cause cancer:**

71-43-2	benzene
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.	
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· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
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· Chemicals known to cause developmental toxicity:

108-88-3	toluene
64-17-5	ethanol
71-43-2	benzene

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

108-88-3	toluene	II
71-43-2	benzene	A, K/L

· TLV (Threshold Limit Value)

108-88-3	toluene	A4
64-17-5	ethanol	A3
71-43-2	benzene	A1

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

71-43-2	benzene
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· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:
phenol, polymer with formaldehyde, glycidyl ether

Fibrous Glass

toluene

ethanol

phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis[oxirane]

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

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

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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.

- **Relevant phrases** Shelf life: 180 days at room temperature and 365 days at cold room temperature

- **Department issuing SDS:** Environment Health and Safety Department

- **Contact:** Hitesh Surti

- **Date of preparation / last revision** 10/05/2022

- **Abbreviations and acronyms:**

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

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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