

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**1 Identification**

- **Product identifier**
- **Trade name:** 3G.1.K1 HIGH GLOSS ALKYD
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
GlobalStar Industrial  
Lusid Technologies  
5195 West 4700 South  
KEARNS, UT 84118  
USA  
1-877-973-7600  
www.Globalstar.online
- **Information department:** Product safety department
- **Emergency telephone number:** 1-800-535-5053

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

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

Skin Sens. 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).

(Contd. on page 2)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 1)

· **Hazard pictograms**



GHS02 GHS08

· **Signal word** *Danger*

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

*White Spirit*

*A mixture of: butan-2-one oxime and syn-O,O'-di(butan-2-one oxime)-diethoxysilane ethylbenzene*

*Solvent naphtha (petroleum), medium aliph.*

· **Hazard statements**

*Flammable liquid and vapor.*

*Causes skin irritation.*

*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*May cause an allergic skin reaction.*

*Suspected of causing cancer.*

*Causes damage to the central nervous system through prolonged or repeated exposure. May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure.*

*May be fatal if swallowed and enters airways.*

· **Precautionary statements**

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

*Use explosion-proof electrical/ventilating/lighting/equipment.*

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

*[In case of inadequate ventilation] wear respiratory protection.*

*Wear protective gloves / eye protection / face protection.*

*Ground/bond container and receiving equipment.*

*Keep container tightly closed.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

*Wash thoroughly after handling.*

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

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

*Obtain special instructions before use.*

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

*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*

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

*Specific treatment (see on this label).*

*If experiencing respiratory symptoms: Call a POISON CENTER/doctor.*

*Wash contaminated clothing before reuse.*

*If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.*

*IF exposed or concerned: Get medical advice/attention.*

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

*Get medical advice/attention if you feel unwell.*

*Do NOT induce vomiting.*

(Contd. on page 3)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 2)

In case of fire: Use for extinction: CO2, powder or water spray.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
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:**

	White Spirit	10-25%
64742-95-6	Solvent naphtha (petroleum), light arom.	10-25%
1330-20-7	xylene	2.5-10%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	2.5-10%
95-63-6	1,2,4-trimethylbenzene	2.5-10%
96-29-7	A mixture of: butan-2-one oxime and syn-O,O'-di(butan-2-one oxime)-diethoxysilane	≤ 2.5%
100-41-4	ethylbenzene	≤ 2.5%
136-52-7	cobalt bis(2-ethylhexanoate)	≤ 2.5%
108-31-6	maleic anhydride	≤ 2.5%

**4 First-aid measures**

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

(Contd. on page 4)

**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 3)

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

**· 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.*

**· 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**

*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:** *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.*

### 7 Handling and storage

**· Handling:**

**· Precautions for safe handling**

*Ensure good ventilation/exhaustion at the workplace.*

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 4)

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:** 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:**

**1330-20-7 xylene**

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

REL Short-term value: 655 mg/m<sup>3</sup>, 150 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppm

Long-term value: 434 mg/m<sup>3</sup>, 100 ppm

BEI

**95-63-6 1,2,4-trimethylbenzene**

REL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm

TLV Long-term value: 123 mg/m<sup>3</sup>, 25 ppm

**96-29-7 A mixture of: butan-2-one oxime and syn-O,O'-di(butan-2-one oxime)-diethoxysilane**

WEEL Long-term value: 10 ppm

DSEN

**100-41-4 ethylbenzene**

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

REL Short-term value: 545 mg/m<sup>3</sup>, 125 ppm

Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 87 mg/m<sup>3</sup>, 20 ppm

BEI

(Contd. on page 6)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 5)

**· Ingredients with biological limit values:**

**1330-20-7 xylene**

BEI 1.5 g/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Methylhippuric acids

**100-41-4 ethylbenzene**

BEI 0.7 g/g creatinine  
Medium: urine  
Time: end of shift at end of workweek  
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-  
Medium: end-exhaled air  
Time: not critical  
Parameter: Ethyl benzene (semi-quantitative)

**· 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 skin.
- 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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 7)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 6)

· **Eye protection:**



Tightly sealed goggles

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Liquid
- **Color:** Amber colored
- **Odor:** Solvent-like
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 137 °C (279 °F)

· **Flash point:** 30 °C (86 °F)

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

· **Ignition temperature:** 200 °C (392 °F)

· **Decomposition temperature:** Not determined.

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

- **Lower:** 0.6 Vol %
- **Upper:** 7.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 27 hPa (20 mm Hg)

· **Density at 20 °C (68 °F):** 0.95 g/cm<sup>3</sup> (7.928 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 7)

- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 27.2 %
  - VOC content:** 42.2 %
  - Coating VOC 383.2 g/l / 3.20 lb/gl
  - Material VOC 383.2 g/l / 3.20 lb/gl
- **Solids content:** 63.9 %
- **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:**

**White Spirit**

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	13.1 mg/l (rat)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

**1330-20-7 xylene**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

**95-63-6 1,2,4-trimethylbenzene**

Oral	LD50	5000 mg/kg (rat)
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(Contd. on page 9)



**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 8)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:**  
Sensitization possible through inhalation.  
Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant
- **Carcinogenic categories**

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

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
136-52-7	cobalt bis(2-ethylhexanoate)	2B
111-76-2	2-butoxyethanol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **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 2 (Self-assessment): hazardous for water  
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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

US

(Contd. on page 10)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016





**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 9)

**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** UN1263
- **UN proper shipping name**
- **DOT, IATA** Paint
- **IMDG** PAINT (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **IMDG**
-  
- **Class** 3 Flammable liquids
- **Label** 3
- **IATA**
- 
- **Class** 3 Flammable liquids
- **Label** 3

(Contd. on page 11)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 10)

· <b>Packing group</b>	III
· <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: White Spirit
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	30
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information**

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

· <b>Section 355 (extremely hazardous substances):</b>	None of the ingredients is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>	
1330-20-7	xylene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
136-52-7	cobalt bis(2-ethylhexanoate)
108-31-6	maleic anhydride
111-76-2	2-butoxyethanol
· <b>TSCA (Toxic Substances Control Act):</b>	
64742-95-6	Solvent naphtha (petroleum), light arom.
1330-20-7	xylene

(Contd. on page 12)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 11)

64742-88-7	Solvent naphtha (petroleum), medium aliph.
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
108-67-8	mesitylene
136-52-7	cobalt bis(2-ethylhexanoate)
108-31-6	maleic anhydride
111-76-2	2-butoxyethanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4 ethylbenzene

· **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:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
100-41-4	ethylbenzene	D
111-76-2	2-butoxyethanol	NL

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

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-31-6	maleic anhydride	A4
111-76-2	2-butoxyethanol	A3

· **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).

· **Hazard pictograms**



GHS02 GHS08

· **Signal word** Danger

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

White Spirit

(Contd. on page 13)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 12)

A mixture of: butan-2-one oxime and syn-O,O'-di(butan-2-one oxime)-diethoxysilane ethylbenzene

Solvent naphtha (petroleum), medium aliph.

**· Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to the central nervous system through prolonged or repeated exposure. May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

**· Precautionary statements**

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

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

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

[In case of inadequate ventilation] wear respiratory protection.

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

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

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

Obtain special instructions before use.

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

**IF SWALLOWED:** Immediately call a POISON CENTER/ doctor.

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

Specific treatment (see on this label).

**If experiencing respiratory symptoms:** Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

**If inhaled:** If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

**IF exposed or concerned:** Get medical advice/attention.

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

Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

**In case of fire:** Use for extinction: CO<sub>2</sub>, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep cool.

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

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

US

(Contd. on page 14)

**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 02/19/2016

Reviewed on 02/19/2016

**Trade name: 3G.1.K1 HIGH GLOSS ALKYD**

(Contd. of page 13)

**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:** Product Safety Dept.
- **Date of preparation / last revision** 02/19/2016 / -
- **Abbreviations and acronyms:**
  - 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. Liq. 3: Flammable liquids, Hazard Category 3
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
  - Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  - Carc. 2: Carcinogenicity, Hazard Category 2
  - STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
  - Asp. Tox. 1: Aspiration hazard, Hazard Category 1