

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

1 Identification

- **Product identifier**
- **Trade Name:** 3021KIT
- **Article number:** 3021KIT
- **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

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.
 STOT SE 2 H371 May cause damage to organs.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
 Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.
 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).

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 1)

· **Hazard pictograms**

GHS05 GHS08 GHS09

· **Signal word** *Danger*· **Hazard-determining components of labeling:***4-nonylphenol, branched**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)**Polyethylene Polyamine, Dimer Fatty Acid Condensate**2-piperazin-1-ylethylamine**1,4-bis(2,3-epoxypropoxy)butane**3,6-diazaoctanethylenediamin**2,2'-iminodiethylamine*· **Hazard statements***H314 Causes severe skin burns and eye damage.**H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**H317 May cause an allergic skin reaction.**H361 Suspected of damaging fertility or the unborn child.**H371 May cause damage to organs.**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.**P260 Do not breathe dusts or mists.**P264 Wash thoroughly after handling.**P270 Do not eat, drink or smoke when using this product.**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.**P284 [In case of inadequate ventilation] wear respiratory protection.**P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.**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.**P310 Immediately call a poison center/doctor.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P321 Specific treatment (see on this label).**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.**P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.**P363 Wash contaminated clothing before reuse.**P391 Collect spillage.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 2)

- **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:**

7440-22-4	silver	>50–≤100%
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	>10–<25%
84852-15-3	4-nonylphenol, branched	>10–<25%
68410-23-1	Polyethylene Polyamine, Dimer Fatty Acid Condensate	≥3–<5%
140-31-8	2-piperazin-1-ylethylamine	≥3–<5%
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane	≥1–≤2.5%
112-24-3	3,6-diazaoctanethylenediamin	≥0.1–<1%
111-40-0	2,2'-iminodiethylamine	≥0.1–<1%

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. Then consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a 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.

US

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 3)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
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.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
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:

7440-22-4	silver	0.3 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	90 mg/m ³
84852-15-3	4-nonylphenol, branched	3.9 mg/m ³
68410-23-1	Polyethylene Polyamine, Dimer Fatty Acid Condensate	30 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	6.4 mg/m ³
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane	16 mg/m ³
112-24-3	3,6-diazaoctanethylenediamin	3 ppm
111-40-0	2,2'-iminodiethylamine	3 ppm
80-05-7	bisphenol A	15 mg/m ³

· PAC-2:

7440-22-4	silver	170 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	990 mg/m ³
84852-15-3	4-nonylphenol, branched	43 mg/m ³
68410-23-1	Polyethylene Polyamine, Dimer Fatty Acid Condensate	330 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	71 mg/m ³
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane	170 mg/m ³
112-24-3	3,6-diazaoctanethylenediamin	14 ppm
111-40-0	2,2'-iminodiethylamine	8.5 ppm

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 4)

80-05-7	bisphenol A	110 mg/m ³
· PAC-3:		
7440-22-4	silver	990 mg/m ³
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	5,900 mg/m ³
84852-15-3	4-nonylphenol, branched	260 mg/m ³
68410-23-1	Polyethylene Polyamine, Dimer Fatty Acid Condensate	2,000 mg/m ³
140-31-8	2-piperazin-1-ylethylamine	420 mg/m ³
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane	220 mg/m ³
112-24-3	3,6-diazaoctanethylenediamin	83 ppm
111-40-0	2,2'-iminodiethylamine	51 ppm
80-05-7	bisphenol A	650 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Thorough dedusting.
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.

7440-22-4 silver	
PEL	Long-term value: 0.01 mg/m ³
REL	Long-term value: 0.01 mg/m ³
TLV	Long-term value: 0.1 mg/m ³ metal: dust and fume
112-24-3 3,6-diazaoctanethylenediamin	
WEEL	Long-term value: 6 mg/m ³ , 1 ppm
	Skin

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 5)

111-40-0 2,2'-iminodiethylamine

REL Long-term value: 4 mg/m³, 1 ppm
Skin

TLV Long-term value: 4.2 mg/m³, 1 ppm
Skin

· **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.

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

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Solid

Color: Silver

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 6)

· Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>260 °C (>500 °F)
· Flash point:	>93 °C (>199.4 °F)
· 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 at 20 °C (68 °F):	2.06848 g/cm ³ (17.26147 lbs/gal)
· Bulk density:	1,021 kg/m ³
· 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: VOC content:	0.00 %
· 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.

US

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 7)

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	4,400 mg/kg
Dermal	LD50	6,035 mg/kg
Inhalative	LC50/4 h	176 mg/l

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Oral	LD50	11,400 mg/kg (rat)
		11,400 mg/kg (rabbit)
Dermal	LD50	2,000 mg/kg (rat)

68410-23-1 Polyethylene Polyamine, Dimer Fatty Acid Condensate

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	1,470 mg/kg (rat)

140-31-8 2-piperazin-1-ylethylamine

Oral	LD50	2,140 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)

112-24-3 3,6-diazaoctanethylenediamin

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)

111-40-0 2,2'-iminodiethylamine

Oral	LD50	1,080 mg/kg (rat)
Dermal	LD50	1,090 mg/kg (rabbit)

- Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.

- on the eye:

- Strong caustic effect.

- Strong irritant with the danger of severe eye injury.

- 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

- Corrosive

- Irritant

- Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

122-60-1	phenyl glycidyl ether	2B
----------	-----------------------	----

- NTP (National Toxicology Program)

- None of the ingredients is listed.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 8)

· **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
*Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even extremely 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.

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

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA | UNI759 |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT | <i>Corrosive solids, n.o.s. (4-nonylphenol, branched, N-Aminoethylpiperazine)</i> |
| <ul style="list-style-type: none"> · IMDG | <i>CORROSIVE SOLID, N.O.S. (4-nonylphenol, branched, N-AMINOETHYLPIPERAZINE), MARINE POLLUTANT</i> |
| <ul style="list-style-type: none"> · IATA | <i>Corrosive solid, n.o.s. (4-nonylphenol, branched, N-AMINOETHYLPIPERAZINE)</i> |

(Contd. on page 10)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 9)

· **Transport hazard class(es)**· **DOT**

· **Class** 8 Corrosive substances
 · **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances
 · **Label** 8

· **IATA**

· **Class** 8 Corrosive substances
 · **Label** 8

· **Packing group**· **DOT, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: 4-nonylphenol, branched

· **Marine pollutant:** Yes (DOT)
 Symbol (fish and tree)

· **Special precautions for user** Warning: Corrosive substances· **Hazard identification number (Kemler code):** 80· **EMS Number:** F-A,S-B· **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

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

· **Quantity limitations** On passenger aircraft/rail: 15 kg
 On cargo aircraft only: 50 kg

· **Remarks:** Special marking with the symbol (fish and tree).

· **IMDG**

· **Limited quantities (LQ)** 1 kg
 · **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 10)

· **UN "Model Regulation":** UN 1759 CORROSIVE SOLID, N.O.S. (4-NONYLPHENOL, BRANCHED, N-AMINOETHYLPIPERAZINE), 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

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

None of the ingredients is listed.

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

7440-22-4 silver

84852-15-3 4-nonylphenol, branched

80-05-7 bisphenol A

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

122-60-1 phenyl glycidyl ether

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

80-05-7 bisphenol A

· **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)**

7440-22-4 silver

D

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

122-60-1 phenyl glycidyl ether

A3

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

122-60-1 phenyl glycidyl ether

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

· **Hazard pictograms**



GHS05

GHS08

GHS09

· **Signal word** Danger

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 11)

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

4-nonylphenol, branched

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Polyethylene Polyamine, Dimer Fatty Acid Condensate

2-piperazin-1-ylethylamine

1,4-bis(2,3-epoxypropoxy)butane

3,6-diazaoctanethylenediamin

2,2'-iminodiethylamine

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

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

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs.

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.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

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

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.

P284 [In case of inadequate ventilation] wear respiratory protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

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.

P310 Immediately call a poison center/doctor.

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

P321 Specific treatment (see on this label).

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

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P405 Store locked up.

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

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases** Shelf life: 365 days at room temperature and not recommended at cold room temperature

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

· **Contact:** Hitesh Surti

· **Date of preparation / last revision** 12/22/2020 / -

(Contd. on page 13)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2021

Reviewed on 12/22/2020

Trade Name: 3021KIT

(Contd. of page 12)

· 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
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
 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.

US