

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

1 Identification

- **Product identifier**
- **Trade name:** **P9.3.K1 HB EPOXY PRIMER**
- **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. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **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:**
Talc (Mg₃H₂(SiO₃)₄)

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 1)

ethylbenzene
titanium dioxide
ethanol

· **Hazard statements**

Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause cancer.
May cause damage to the hearing organs through prolonged or repeated exposure.

· **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.
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.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
In case of fire: Use for extinction: CO2, powder or water spray.
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.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 2)

· **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

14807-96-6	Talc (Mg3H2(SiO3)4)	25-50%
68410-23-1	Liquid Polyamide Resin	10-25%
540-88-5	tert-butyl acetate	10-25%
67-64-1	acetone	10-25%
13463-67-7	titanium dioxide	2.5-10%
110-43-0	heptan-2-one	2.5-10%
1332-58-7	Kaolin	2.5-10%
1330-20-7	xylene	≤ 2.5%
7779-90-0	trizinc bis(orthophosphate)	≤ 2.5%
100-41-4	ethylbenzene	≤ 2.5%
64-17-5	ethanol	≤ 2.5%
1333-86-4	Carbon black	≤ 2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
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; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **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.

US

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(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.
- **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.
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.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 4)

· *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:*

540-88-5 tert-butyl acetate

PEL Long-term value: 950 mg/m³, 200 ppm
 REL Long-term value: 950 mg/m³, 200 ppm
 TLV Short-term value: NIC-712 mg/m³, NIC-150 ppm
 Long-term value: (950) NIC-238 mg/m³, (200) NIC-50 ppm

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm
 REL Long-term value: 590 mg/m³, 250 ppm
 TLV Short-term value: 1187 mg/m³, 500 ppm
 Long-term value: 594 mg/m³, 250 ppm
 BEI

110-43-0 heptan-2-one

PEL Long-term value: 465 mg/m³, 100 ppm
 REL Long-term value: 465 mg/m³, 100 ppm
 TLV Long-term value: 233 mg/m³, 50 ppm

1332-58-7 Kaolin

PEL Long-term value: 15* 5** mg/m³
 *total dust **respirable fraction
 REL Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction
 TLV Long-term value: 2* mg/m³
 E; as respirable fraction

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm
 REL Short-term value: 655 mg/m³, 150 ppm
 Long-term value: 435 mg/m³, 100 ppm
 TLV Short-term value: 651 mg/m³, 150 ppm
 Long-term value: 434 mg/m³, 100 ppm
 BEI

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 5)

REL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Long-term value: 87 mg/m³, 20 ppm
BEI

67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm
REL Short-term value: 325 mg/m³, 250 ppm
Long-term value: 260 mg/m³, 200 ppm
Skin
TLV Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Skin; BEI

· Ingredients with biological limit values:

67-64-1 acetone

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

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)

67-56-1 methanol

BEI 15 mg/L
Medium: urine
Time: end of shift
Parameter: Methanol (background, nonspecific)

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

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 6)

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

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.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Color: Grey

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 2501 °C (4534 °F)

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 7)

· Flash point:	-17 °C (1 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	465 °C (869 °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:	2.6 Vol %
Upper:	13.0 Vol %
· Vapor pressure at 20 °C (68 °F):	233 hPa (175 mm Hg)
· Density at 20 °C (68 °F):	1.285 g/cm ³ (10.723 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.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	37.4 %
VOC content:	12.8 %
	Coating VOC 210.7 g/l / 1.75 lb/gl
	Material VOC 134.2 g/l / 1.12 lb/gl
Solids content:	66.2 %
· 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.

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 8)

· **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:**

68410-23-1 Liquid Polyamide Resin

Oral	LD50	2000 mg/kg (rat)
------	------	------------------

Dermal	LD50	2000 mg/kg (rabbit)
--------	------	---------------------

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

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

14807-96-6	Talc (Mg3H2(SiO3)4)	2B
------------	---------------------	----

13463-67-7	titanium dioxide	2B
------------	------------------	----

1330-20-7	xylene	3
-----------	--------	---

100-41-4	ethylbenzene	2B
----------	--------------	----

64-17-5	ethanol	1
---------	---------	---

1333-86-4	Carbon black	2B
-----------	--------------	----

67-63-0	propan-2-ol	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.

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER



(Contd. of page 9)

- **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.

14 Transport information

- | | |
|--|---|
| · UN-Number | |
| · DOT, IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · DOT, IATA | Paint |
| · IMDG | PAINT |
| · Transport hazard class(es) | |
| · DOT | |
| |  |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| <hr style="border-top: 1px dashed #ccc;"/> | |
| · IMDG, IATA | |
| |  |
| · Class | 3 Flammable liquids |
| · Label | 3 |

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 10)

· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids 33 F-E,S-E 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
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1263 PAINT, 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 ingredients is listed.

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

1330-20-7	xylene
7779-90-0	trizinc bis(orthophosphate)
100-41-4	ethylbenzene
67-56-1	methanol
67-63-0	propan-2-ol

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
13463-67-7 titanium dioxide

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 11)

100-41-4	ethylbenzene
1333-86-4	Carbon black

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

64-17-5	ethanol
67-56-1	methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
1330-20-7	xylene	I
7779-90-0	trizinc bis(orthophosphate)	D, I, II
100-41-4	ethylbenzene	D

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

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
1332-58-7	Kaolin	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
64-17-5	ethanol	A3
1333-86-4	Carbon black	A4
67-63-0	propan-2-ol	A4

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

13463-67-7	titanium dioxide
1333-86-4	Carbon black

· **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:**

Talc (Mg₃H₂(SiO₃)₄)

(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 12)

ethylbenzene
titanium dioxide
ethanol

· Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause cancer.

May cause damage to the hearing organs through prolonged or repeated exposure.

· 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.

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.

Obtain special instructions before use.

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

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep cool.

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

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

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· 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:** Product Safety Dept.

· **Date of preparation / last revision** 01/29/2016 / -

(Contd. on page 14)

-US

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P9.3.K1 HB EPOXY PRIMER

(Contd. of page 13)

· 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. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Carc. 1A: Carcinogenicity, Hazard Category 1A
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

US