

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

1 Identification

- **Product identifier**
- **Trade name:** P7.3.K1 2K URETHANE 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. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin 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 ($Mg_3H_2(SiO_3)_4$)

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 1)

titanium dioxide

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

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

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

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.

Specific treatment (see on this label).

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

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)**



Health = 1

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

US

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 2)

3 Composition/information on ingredients

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

· **Dangerous components:**

1330-20-7	xylene	25-50%
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	10-25%
13463-67-7	titanium dioxide	10-25%
7727-43-7	barium sulphate, natural	2.5-10%
123-86-4	n-butyl acetate	2.5-10%
78-93-3	butanone	2.5-10%
1332-58-7	Kaolin	≤ 2.5%
112926-00-8	Precipitated silica (Silica-Amorphous)	≤ 2.5%
100-41-4	ethylbenzene	≤ 2.5%
108-88-3	toluene	≤ 2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 3)

- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
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.
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.
Do not flush with water or aqueous cleansing agents
- **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.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 4)

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

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

7727-43-7 barium sulphate, natural

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: 5* mg/m³
 *inhalable fraction; E

123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m³, 150 ppm
 REL Short-term value: 950 mg/m³, 200 ppm
 Long-term value: 710 mg/m³, 150 ppm
 TLV Short-term value: 950 mg/m³, 200 ppm
 Long-term value: 713 mg/m³, 150 ppm

78-93-3 butanone

PEL Long-term value: 590 mg/m³, 200 ppm
 REL Short-term value: 885 mg/m³, 300 ppm
 Long-term value: 590 mg/m³, 200 ppm
 TLV Short-term value: 885 mg/m³, 300 ppm
 Long-term value: 590 mg/m³, 200 ppm
 BEI

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

112926-00-8 Precipitated silica (Silica-Amorphous)

PEL 20mppcf or 80mg/m³ /%SiO₂
 REL Long-term value: 6 mg/m³
 See Pocket Guide App. C

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 5)

TLV	TLV withdrawn
· Ingredients with biological limit values:	
1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
78-93-3 butanone	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK

· **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.
- 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 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(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: Grey
· **Odor:** Characteristic
· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 79 °C (174 °F)

· **Flash point:** -4 °C (25 °F)

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

· **Ignition temperature:** 370 °C (698 °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: 1.1 Vol %
Upper: 7.0 Vol %

· **Vapor pressure at 20 °C (68 °F):** 6.7 hPa (5 mm Hg)

· **Density at 20 °C (68 °F):** 1.34 g/cm³ (11.182 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 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 7)

- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 38.0 %
 - VOC content:** 38.0 %
 - Coating VOC 505.6 g/l / 4.21 lb/gl
 - Material VOC 505.6 g/l / 4.21 lb/gl
- **Solids content:** 62.0 %
- **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:**

1330-20-7 xylene

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

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

· **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

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 8)

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	2B
13463-67-7	titanium dioxide	2B
112926-00-8	Precipitated silica (Silica-Amorphous)	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO ₂)	1

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
------------	----------------------------	---

· **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.

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.

Safety Data Sheet
acc. to OSHA HCS



Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 9)

14 Transport information

· UN-Number · DOT, IMDG, IATA	UN1263
· UN proper shipping name · DOT · IMDG, IATA	Paint PAINT
· Transport hazard class(es) · DOT	
	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids 33 F-E, S-E
· 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)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 10)

· **UN "Model Regulation":** UN1263, 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
7727-43-7	barium sulphate, natural
78-93-3	butanone
100-41-4	ethylbenzene
108-88-3	toluene

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

1330-20-7	xylene
14807-96-6	Talc (Mg3H2(SiO3)4)
13463-67-7	titanium dioxide
7727-43-7	barium sulphate, natural
123-86-4	n-butyl acetate
78-93-3	butanone
1332-58-7	Kaolin
100-41-4	ethylbenzene
108-88-3	toluene
110-43-0	heptan-2-one
77-58-7	dibutyltin dilaurate
1333-86-4	Carbon black
8002-74-2	Paraffin waxes and Hydrocarbon waxes
64742-95-6	Solvent naphtha (petroleum), light arom.
14808-60-7	Quartz (SiO2)

· **Proposition 65**

· **Chemicals known to cause cancer:**

13463-67-7	titanium dioxide
100-41-4	ethylbenzene
1333-86-4	Carbon black
14808-60-7	Quartz (SiO2)

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 11)

· Chemicals known to cause reproductive toxicity for females:

108-88-3 toluene

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
78-93-3	butanone	I
100-41-4	ethylbenzene	D
108-88-3	toluene	II

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
13463-67-7	titanium dioxide	A4
1332-58-7	Kaolin	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
77-58-7	dibutyltin dilaurate	A4
1333-86-4	Carbon black	A4
14808-60-7	Quartz (SiO2)	A2

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

13463-67-7	titanium dioxide
1333-86-4	Carbon black
14808-60-7	Quartz (SiO2)

· 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)
titanium dioxide

(Contd. on page 13)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 12)

· **Hazard statements**

Highly flammable liquid and vapor.
Causes skin irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
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.
Specific treatment (see on this label).
IF exposed or concerned: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.
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.

· **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 / -

· **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

(Contd. on page 14)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/29/2016

Reviewed on 01/29/2016

Trade name: P7.3.K1 2K URETHANE PRIMER

(Contd. of page 13)

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
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2

US