



## Safety Data Sheet acc. to OSHA HCS

Printing date 12/05/2017

Reviewed on 12/05/2017

### 1 Identification

- **Product identifier**
- **Trade name:** GTP210B 2K URETHANE SEALER BLACK
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Lusid Technologies  
5195 West 4700 South  
KEARNS, UT 84118  
USA  
www.lusid.biz
- **Information department:** Product safety department
- **Emergency telephone number:**  
24 Hrs Emergency Contact:  
INFOTRAC  
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.  
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).

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· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

Carbon black

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

Obtain special instructions before use.

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

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

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

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.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

Store in a well-ventilated place. Keep cool.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

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

- **Dangerous components:**

98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	25-50%
67-64-1	acetone	10-25%
1330-20-7	xylene	2.5-10%
7727-43-7	barium sulphate, natural	2.5-10%
1333-86-4	Carbon black	≤2.5%
112926-00-8	Precipitated silica (Silica-Amorphous)	≤2.5%
1332-58-7	Kaolin	≤2.5%
100-41-4	ethylbenzene	≤2.5%
108-88-3	toluene	≤2.5%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
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).

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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:**

67-64-1	acetone	200 ppm
1330-20-7	xylene	130 ppm
7727-43-7	barium sulphate, natural	15 mg/m <sup>3</sup>
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
112926-00-8	Precipitated silica (Silica-Amorphous)	18 mg/m <sup>3</sup>
100-41-4	ethylbenzene	33 ppm
108-88-3	toluene	67 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
78-83-1	butanol	150 ppm
57-55-6	Methyl glycol	30 mg/m <sup>3</sup>

· **PAC-2:**

67-64-1	acetone	3200* ppm
1330-20-7	xylene	920* ppm
7727-43-7	barium sulphate, natural	170 mg/m <sup>3</sup>
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
112926-00-8	Precipitated silica (Silica-Amorphous)	200 mg/m <sup>3</sup>
100-41-4	ethylbenzene	1100* ppm
108-88-3	toluene	560 ppm
77-58-7	dibutyltin dilaurate	8 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
78-83-1	butanol	1,300 ppm
57-55-6	Methyl glycol	1,300 mg/m <sup>3</sup>

· **PAC-3:**

67-64-1	acetone	5700* ppm
1330-20-7	xylene	2500* ppm
7727-43-7	barium sulphate, natural	990 mg/m <sup>3</sup>
1333-86-4	Carbon black	590 mg/m <sup>3</sup>
112926-00-8	Precipitated silica (Silica-Amorphous)	1,200 mg/m <sup>3</sup>
100-41-4	ethylbenzene	1800* ppm
108-88-3	toluene	3700* ppm
77-58-7	dibutyltin dilaurate	48 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
78-83-1	butanol	8000* ppm
57-55-6	Methyl glycol	7,900 mg/m <sup>3</sup>

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## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **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.
- **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 remaining constituent has no known exposure limits.

### 67-64-1 acetone

PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm Long-term value: 594 mg/m <sup>3</sup> , 250 ppm BEI

### 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

### 7727-43-7 barium sulphate, natural

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 5* mg/m <sup>3</sup> *inhalable fraction; E

### 1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m <sup>3</sup>
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REL Long-term value: 3.5\* mg/m<sup>3</sup>  
\*0.1 in presence of PAHs; See Pocket Guide Apps. A+C

TLV Long-term value: 3\* mg/m<sup>3</sup>  
\*inhalable fraction

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

PEL 20mppcf or 80mg/m<sup>3</sup> /%SiO<sub>2</sub>

REL Long-term value: 6 mg/m<sup>3</sup>  
See Pocket Guide App. C

TLV TLV withdrawn

**1332-58-7 Kaolin**

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV Long-term value: 2\* mg/m<sup>3</sup>  
E; as respirable fraction

**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

**108-88-3 toluene**

PEL Long-term value: 200 ppm  
Ceiling limit value: 300; 500\* ppm  
\*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 75 mg/m<sup>3</sup>, 20 ppm  
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

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### 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)

### 108-88-3 toluene

BEI 0.02 mg/L  
 Medium: blood  
 Time: prior to last shift of workweek  
 Parameter: Toluene

0.03 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Toluene

0.3 mg/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: o-Cresol with hydrolysis (background)

· **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 eyes and skin.

· **Breathing equipment:** Not required.

· **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.

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**· Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

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

**· General Information**

**· Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Black
<b>· Odor:</b>	Characteristic
<b>· Odor threshold:</b>	Not determined.

**· pH-value:** Not determined (pH N/A in solvent coatings)

**· Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	55 °C (131 °F)

**· Flash point:** -17 °C (1.4 °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:**

<b>Lower:</b>	2.6 Vol %
<b>Upper:</b>	13 Vol %

**· Vapor pressure at 20 °C (68 °F):** 233 hPa (174.8 mm Hg)

**· Density at 20 °C (68 °F):** 1.31 g/cm<sup>3</sup> (10.932 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:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

**· Solvent content:**

<b>Organic solvents:</b>	24.5 %
<b>VOC content:</b>	10.55 %
	279.4 g/l / 2.33 lb/gal

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- |                          |  |
|--------------------------|--|
| <b>Solids content:</b>   | 48.4 %                                     |
| <b>Other information</b> | 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	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **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)	3
1330-20-7	xylene	3
1333-86-4	Carbon black	2B
112926-00-8	Precipitated silica (Silica-Amorphous)	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3
14808-60-7	Quartz (SiO2)	1

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO2)	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## 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.

## 14 Transport information

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

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· <b>Label</b>	3
· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids 33 F-E, S-E B
· <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: 5 L On cargo aircraft only: 60 L
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	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
7727-43-7	barium sulphate, natural
100-41-4	ethylbenzene
108-88-3	toluene

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

98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
67-64-1	acetone
1330-20-7	xylene
7727-43-7	barium sulphate, natural
1333-86-4	Carbon black
1332-58-7	Kaolin
100-41-4	ethylbenzene
108-88-3	toluene
77-58-7	dibutyltin dilaurate

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8002-74-2	Paraffin waxes and Hydrocarbon waxes
14808-60-7	Quartz (SiO <sub>2</sub> )
78-83-1	butanol
57-55-6	Methyl glycol

**· TSCA new (21st Century Act) (Substances not listed)**

112926-00-8	Precipitated silica (Silica-Amorphous)
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**· Proposition 65**
**· Chemicals known to cause cancer:**

1333-86-4	Carbon black
100-41-4	ethylbenzene
14808-60-7	Quartz (SiO <sub>2</sub> )

**· 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:**

108-88-3	toluene
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**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

67-64-1	acetone	I
1330-20-7	xylene	I
7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
100-41-4	ethylbenzene	D
108-88-3	toluene	II

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

14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	A4
67-64-1	acetone	A4
1330-20-7	xylene	A4
1333-86-4	Carbon black	A4
1332-58-7	Kaolin	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
77-58-7	dibutyltin dilaurate	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2

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

1333-86-4	Carbon black
14808-60-7	Quartz (SiO <sub>2</sub> )

**· GHS label elements**

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

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- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

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

Carbon black

- **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

Obtain special instructions before use.

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

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

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

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.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

Store in a well-ventilated place. Keep cool.

Store locked up.

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** 12/05/2017 / 2

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/05/2017

Reviewed on 12/05/2017

**Trade name: GTP210B 2K URETHANE SEALER BLACK**

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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 – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2

· \* **Data compared to the previous version altered.**

USA