

PRODUCT NAME: ABRO Duct Sealant  
PRODUCT NUMBER/SIZE: DS-1050

Revision Date: 05/12/15

## SECTION 1 Identification of the Substance and of the Company/Undertaking

**MANUFACTURER'S NAME:** ABRO INDUSTRIES, INC.

**ADDRESS:** 3580 Blackthorn Court  
South Bend, IN 46628  
USA

**PRODUCT DESCRIPTION:** Duct Sealant

**COMPANY PHONE:** 574-232-8289

**EMERGENCY 24-HR TELEPHONE:** Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

## SECTION 2 Hazards Identification

### Classification:

Lact. H362  
STOT SE 2 H371  
Aquatic Chronic 2 H411  
Full text of H-phrases: see section 16

Xn; R68/20/21/22  
N; R51/53  
R64  
Full text of R-phrases: see section 16

### Label Pictogram(s):



**Signal Word:** Warning

**Hazard Phrases:** May cause harm to breast-fed children. May cause damage to organs. Toxic to aquatic life with long lasting effects.

**Precautionary Phrases:** Obtain special instructions before use. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Get medical advice/attention. Collect spillage. Dispose of contents/container to Comply with applicable local, national and international regulation.

**Storage / Disposal:** None

**SECTION 3**  
**Composition/Information on Ingredients**

<u>Name</u>	<u>Product Identifier</u>	<u>%</u>	<u>Classification according to Directive 67/548/EEC</u>
Limestone substance with national workplace exposure limit(s) (BE, BG, ES, ET, GB, GR, HU, IE, IT, PT, RU)	(CAS No.) 1317-65-3 (EC no) 215-279-6	46.5	Not classified
Alkanes, C14-17, chloro	(CAS No.) 85535-85-9 (EC no) 287-477-0 (EC index no) 602-095-00-X	4.6	N; R50/53 R64 R66
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate	(CAS No.) 25212-88-8	3.4	Xn; R20
Quartz substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, ET, FI, FR, GB, HU, IE, IT, LT, NL, PL, PT, RO, SE, SK, SL, RU)	(CAS No.) 14808-60-7 (EC no) 238-878-4	0.7 - 2.3	Not classified
Methanol	(CAS No.) 67-56-1	< 1.4	F; R11 T; R23/24/25 T; R39/23/24/25
Ammonia Hydroxide	(CAS No.) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2	< 0.6	N; R50 C; R34
Titanium dioxide	(CAS No.) 13463-67-7 (EC no) 236-675-5	0.35 - 0.44	Carc.Cat.3; R40
Bronopol (INN)	(CAS No.) 52-51-7 (EC no) 200-143-0 (EC index no) 603-085-00-8	0.012	Xn; R21/22 Xi; R41 Xi; R37/38 N; R50

<u>Name</u>	<u>Product Identifier</u>	<u>Specific concentration limits</u>
Bronopol (INN)	(CAS No.) 52-51-7 (EC no) 200-143-0 (EC index no) 603-085-00-8	(2.5 =< C) N; R50

<u>Name</u>	<u>Product Identifier</u>	<u>%</u>	<u>Classification according to Regulation (EC) No. 1272/2008 [CLP]</u>
Limestone substance with national workplace exposure limit(s) (BE, BG, ES, ET, GB, GR, HU, IE, IT, PT, RU)	(CAS No.) 1317-65-3 (EC no) 215-279-6	46.5	Not classified
Alkanes, C14-17, chloro	(CAS No.) 85535-85-9 (EC no) 287-477-0 (EC index no) 602-095-00-X	4.6	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate	(CAS No.) 25212-88-8	3.4	Acute Tox. 4 (Inhalation:gas), H332

Quartz substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, ET, FI, FR, GB, HU, IE, IT, LT, NL, PL, PT, RO, SE, SK, SL, RU)	(CAS No.) 14808-60-7 (EC no) 238-878-4	0.7 - 2.3	Not classified
Methanol	(CAS No.) 67-56-1	< 1.4	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Carc. 2, H351
Ammonia Hydroxide	(CAS No.) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2	< 0.6	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Carc. 2, H351
Titanium dioxide	(CAS No.) 13463-67-7 (EC no) 236-675-5	0.35 - 0.44	Carc. 2, H351
Bronopol (INN)	(CAS No.) 52-51-7 (EC no) 200-143-0 (EC index no) 603-085-00-8	0.012	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)

## SECTION 4 First Aid Measures

### Description of first aid measures

<b>General</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). May cause harm to breast-fed children.
<b>Inhalation</b>	Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin Contact</b>	Gently wash with plenty of soap and water.
<b>Eye Contact</b>	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed

**Symptoms/injuries** May cause damage to organs.

### Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 Fire Fighting Measures

### Extinguishing media

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media:** Do not use a heavy water stream.

**Special hazards arising from the substance or mixture**

**Reactivity:** Stable under normal conditions.

**Advice for firefighters**

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**Protective equipment for firefighters:** Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6**  
**Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel:**

**Emergency procedures:** Evacuate unnecessary personnel.

**For emergency responders:**

**Protective equipment:** Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Emergency procedures:** Ventilate area.

**Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

**Methods and material for containment and cleaning up**

**Methods for cleaning up:** On land, sweep or shovel into suitable containers. Store away from other materials.

**Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**SECTION 7**  
**Handling and Storage**

**Precautions for safe handling**

**Precautions for safe handling:** Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Do not breathe dust/fume/gas/mist/vapours/spray.

**Hygiene measures:** Wash skin thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage condition(s):** Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

**Incompatible products:** Strong bases. strong acids.

**Incompatible materials:** Sources of ignition. Direct sunlight.

**Specific end use(s)**

No additional information available

**SECTION 8**  
**Exposure Controls/Personal Protection**

**Control parameters**

**Methanol (67-56-1)**

EU	Notation	Skin
Austria	MAK Short time value (mg/m <sup>3</sup> )	1040 mg/m <sup>3</sup>
Spain	VLA-EC (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	250 ppm
Switzerland	Remark (CH)	max. 4x15 min/8h
Russia	MPC (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Russia	MAC (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Russia	STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Vapor)
Russia	TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Vapor)
Czech Republic	Expoziční limity (PEL) (ppm)	188.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	754 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	520 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	400 ppm
Finland	Huomautus (FI)	iho
Hungary	CK-érték	1040 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	250 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	Remark (LT)	O
Norway	Merknader (NO)	H("Arbeidstilsynet Nr. 361, 1997, S.15")
Slovakia	Upozornenie (SK)	K
Australia	TWA (mg/m <sup>3</sup> )	266 mg/m <sup>3</sup>
Australia	TWA (ppm)	200 ppm
Australia	STEL (mg/m <sup>3</sup> )	333 mg/m <sup>3</sup>
Australia	STEL (ppm)	250 ppm

**Quartz (14808-60-7)**

Austria	MAK (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (when it contains >1% or more of the substance, yearly average)
Belgium	Limit value (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	0.07 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (restrictive limit)
Italy - Portugal - USA	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
ACGIH		
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Switzerland	VME (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
Russia	MAC (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Russia	STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Russia	TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
The Netherlands	MAC TGG 8H (mg/m <sup>3</sup> )	0.075 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup> (calculated)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (blasting and quarrying)
Hungary	AK-érték	0.15 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	1.0 mg/m <sup>3</sup> (2% to 50% free crystalline silica)
Romania	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (in Cristobalite or Tridymite)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

**Titanium dioxide (13463-67-7)**

Austria	MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> max. 2x60 min./Schicht

**Ammonia Hydroxide (1336-21-6)**

EU	IOELV TWA (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
EU	Notation	(ammonia, anhydrous)
Austria	MAK (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	(Ammoniak, wasserfrei)
Belgium	Limit value (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	50 ppm
Belgium	Remark*	(ammoniac, exempt d'eau)
France	VLE (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
France	VLE (ppm)	20 ppm
France	VME (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
France	Note (FR)	(ammoniac, exempt d'eau)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	(Ammoniak, wasserfrei)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	27 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	35 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	(ammonia, anhydrous)
USA IDLH	US IDLH (ppm)	300 ppm
USA IDLH	Remark (US IDLH)	(ammonia, anhydrous)

USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	27 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	35 ppm
USA NIOSH	Remark (US NIOSH)	(ammonia, anhydrous)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA OSHA	Remark (US OSHA)	(ammonia, anhydrous)
Spain	VLA-ED (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	20 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	50 ppm
Spain	Notes	(amoníaco, anhidro)
Switzerland	VLE (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	40 ppm
Switzerland	VME (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Switzerland	VME (ppm)	20 ppm
Switzerland	Remark (CH)	(Ammoniak, wasserfrei)
The Netherlands	MAC TGG 8H (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
The Netherlands	MAC TGG 15MIN (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
The Netherlands	Remark (MAC)	(ammoniac, exempt d'eau)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	35 ppm
United Kingdom	Remark (WEL)	(, )
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	20.132 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	51.768 ppm
Czech Republic	Remark (CZ)	(amoniak, bezvodý)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Denmark	Anmærkninger (DK)	(ammoniak, vandfri)
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	36 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Finland	Huomautus (FI)	(ammoniakki, vedetön)
Hungary	AK-érték	14 mg/m <sup>3</sup>
Hungary	CK-érték	36 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(ammóniák, vízmentes)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	35 ppm
Ireland	Notes (IE)	(ammonia, anhydrous)
Lithuania	IPRV (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	20 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	50 ppm
Lithuania	Remark (LT)	(amoniakas, bevandenis)
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm

Norway	Merknader (NO)	(ammoniakk, vannfri)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	Upozornenie (SK)	(amoniak, bez vody)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	50 ppm
Sweden	Anmärkning (SE)	(ammoniakk, vattenfri)
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
Canada (Quebec)	VECD (ppm)	35 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	17 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	25 ppm
Canada (Quebec)	Notations and remarks	(ammonia, anhydrous)
<b>Limestone (1317-65-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	10.0 mg/m <sup>3</sup> (containing <2% free Crystalline silicon dioxide in respirable fibrous particles fraction)
Greece	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	Notes	inhalable aerosol
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	respirable aerosol
Russia	MPC (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
Russia	MAC (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total dust 4 mg/m <sup>3</sup> respirable dust
Hungary	AK-érték	10 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Alkanes, C14-17, chloro (85535-85-9)</b>		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.3 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)



**Exposure controls**

Personal protective equipment:

Wash skin thoroughly after handling.  
Gloves. Safety glasses. Half Mask.



Hand protection

Wear protective gloves.

Eye protection

Chemical goggles or safety glasses.

Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

Other information

When using, do not eat, drink or smoke. Do not breathe Dust/Mist. Do not eat, drink or smoke when using this product.

**SECTION 9**  
**Physical and Chemical Properties**

Physical state:	Solid
Appearance:	Paste.
Colour:	Grey.
Odour:	Faint odour of ammonia.
Odour threshold:	No data available
pH:	8 - 9.5
Relative evaporation rate (butylacetate=1):	< 1
Melting point:	No data available
Freezing point:	ca. 0 °C
Boiling point:	ca. 100 °C
Flash point:	No data available
Self ignition temperature:	Not established.
Decomposition temperature:	No data available
Flammability (solid, gas):	Non flammable.
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	1.3 - 1.5 g/cm <sup>3</sup>
Solubility:	soluble in water.
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available
<b>Other information:</b>	
VOC content:	< 37 %

**SECTION 10**  
**Stability and Reactivity**

**Reactivity:**

Stable under normal conditions.

**Chemical stability:**

Not established.

**Possibility of hazardous reactions:**

Hazardous polymerization will not occur.

**Conditions to avoid:**

Direct sunlight. Extremely high or low temperatures.

**Incompatible materials:**

Oxidizing agents. materials that react with water.

**Hazardous decomposition products:**

On combustion, forms: fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Aldehydes. low molecular weight hydrocarbons. Hydrogen chloride (HCl).

**SECTION 11**  
**Toxicological Information**

**Information on toxicological effects**

Acute toxicity: Not classified (Based on additivity formula, the classification criteria are not met)

**DS-1050**

ATE (oral)	500.00000 mg/kg
ATE (dermal)	1100.00000 mg/kg
ATE (dust,mist)	1.50000 mg/l/4h

**Methanol (67-56-1)**

ATE (oral)	100.00000 mg/kg
ATE (dermal)	300.00000 mg/kg
ATE (dust,mist)	0.50000 mg/l/4h

**Quartz (14808-60-7)**

LD50 oral rat	500 mg/kg
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**Titanium dioxide (13463-67-7)**

LD50 oral rat	> 25000 mg/kg
LD50 dermal rat	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h

**Limestone (1317-65-3)**

LD50 oral rat	> 6450 mg/kg
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**Alkanes, C14-17, chloro (85535-85-9)**

LD50 oral rat	2000 mg/kg
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Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met pH: 8 - 9.5
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Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met pH: 8 - 9.5
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Respiratory or skin sensitization:	Not classified Based on available data, the classification criteria are not met
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Germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	May cause harm to breast-fed children. May cause harm to breast-fed children
Specific target organ toxicity (single exposure)	May cause damage to organs. Causes damage to organs
Specific target organ toxicity (repeated exposure)	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

## SECTION 12 Ecological Information

### **Toxicity**

Ecology - water: Toxic to aquatic life with long lasting effects.

### **Limestone (1317-65-3)**

LC50 fish 1 > 200 mg/l 96 hours

### **Alkanes, C14-17, chloro (85535-85-9)**

LC50 fish 1 > 500 mg/l (Exposure time: 48 h - Species: Leuciscus idus [static])

### **Persistence and degradability**

#### **DS-1050**

Persistence and degradability May cause long-term adverse effects in the environment.

### **Bioaccumulative potential**

#### **DS-1050**

Bioaccumulative potential Not established.

### **Alkanes, C14-17, chloro (85535-85-9)**

Log Pow 5.5 - 6.0

### **Mobility in soil**

No additional information available

### **Results of PBT and vPvB assessment**

No additional information available

### **Other adverse effects**

Other information: Avoid release to the environment.

## SECTION 13 Disposal Considerations

**Waste treatment methods:**

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to.

Ecology - waste materials: Avoid release to the environment.

## SECTION 14 Transport Information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

**UN number**

No dangerous good in sense of transport regulations.

**UN proper shipping name**

Not applicable

**Transport hazard class(es)**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

Dangerous for the environment:



Other information:

No supplementary information available.

**Special precautions for user**

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15 Regulatory Information

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

**EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

VOC content	< 37 %
Other regulations, restrictions and prohibition regulations	Compliance with following regulations: Regulation (EC) 1272/2008 as amended. Regulation (EC) 1907/2006 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended.

**National regulations**

Regional legislation: Listed on Inventory of Existing Chemical Substances (IECSC).

**Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16**  
**Other Information**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

**ABBREVIATIONS:**

NG="NOT GIVEN"

BT="BETWEEN"

<="LESS THAN"

>="GREATER THAN"

ND = Not Determined

NA = Not Applicable

**Indication of changes:**

All requirements according to Regulation (EC) No 453/2010 were applied.

**Sources of Key data:**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**Abbreviations and acronyms:**

ACGIH (American Conference of Government Industrial Hygienists). ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. EC - European Community. EEC - European Economic Community. IARC (International Agency for Research on Cancer). MSDS - Material Safety Data Sheet. PBT - Persistent, Bioaccumulative and Toxic substance. PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. TWA- Time Weighted Average. TLV- Threshold Limit Value. SDS - Safety Data Sheet. STEL- Short-Term Exposure Limit. vPvB - Very Persistent and Very Bioaccumulative.

Other information : None.

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	flammable liquids Category 2
Lact.	Reproductive toxicity (Lact.)
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H371	May cause damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable.
R20	Harmful by inhalation.
R21/22	Harmful in contact with skin and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R37/38	Irritating to respiratory system and skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R64	May cause harm to breastfed babies.
R66	Repeated exposure may cause skin dryness or cracking.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
C	Corrosive
F	Highly flammable
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful