

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	SAL CURB SPECIAL DRY
Registration number	-
Synonyms	None.
Product code	111250
Issue date	05-June-2019
Version number	03
Revision date	24-February-2020
Supersedes date	26-November-2019

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Additive
Uses advised against	None known.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Company name	Kemin Europa nv	
Address	Toekomstlaan 42 B-2200 Herentals BE	
Division	KAE - Agrifoods Europe	
Telephone	Bussines hours	+32-14 28 62 00
e-mail	msds.europe@kemin.com	
Contact person	Not available.	

1.4. Emergency telephone number	BIG	+32 14 58 45 45
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<b>General in EU</b>	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Austria National Poisons Information Centre</b>	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Croatia National Poisons Control Center</b>	+3851 2348 342 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Portugal National Poisons Information Centre (CIAV)</b>	+351 800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Belgium National Poisons Control Center</b>	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Belgium National Poisons Control Center</b>	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Bulgaria National Toxicological Information Center</b>	+359 2 9154 409 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Croatia National Poisons Control Center</b>	+3851 2348 342 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Czech Republic National Poisons Information Centre</b>	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Denmark National Poisons Control Center</b>	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Estonia National Poisons Information Centre</b>	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

<b>Finland National Poison Information Center</b>	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>France National Poisons Control Center</b>	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Hungary National Emergency Phone Number</b>	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Lithuania Neatidėliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Center (NVIC)</b>	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Slovakia National Toxicological Information Center</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

##### Hazard summary

Causes serious eye irritation. Causes skin irritation. May cause irritation to the respiratory system. Prolonged exposure may cause chronic effects. Occupational exposure to the substance or mixture may cause adverse health effects.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Ammonium formate, PROPIONIC ACID

##### Hazard pictograms



##### Signal word

Warning

##### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statements

##### Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection.
P280	Wear protective gloves.

##### Response

P302 + P352	IF ON SKIN: Wash with plenty of water.
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P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTRE/doctor if you feel unwell.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**Disposal**

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

**Supplemental label information** None.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
PROPIONIC ACID	10 - < 20	79-09-4 201-176-3	01-2119486971-24-XXXX	607-089-00-0	#
<b>Classification:</b>	Flam. Liq. 3;H226, Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335				B
AMMONIUM PROPIONATE	5 - < 10	17496-08-1 241-503-7	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
Ammonium formate	1 - < 3	540-69-2 208-753-9	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				
Other components below reportable levels	70 - < 80				

**List of abbreviations and symbols that may be used above**

#: This substance has been assigned Union workplace exposure limit(s).  
 M: M-factor  
 PBT: persistent, bioaccumulative and toxic substance.  
 vPvB: very persistent and very bioaccumulative substance.  
 All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

**SECTION 4: First aid measures**

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**4.1. Description of first aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.  
**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**SECTION 5: Firefighting measures**

**General fire hazards** No unusual fire or explosion hazards noted.

**5.1. Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Use water spray to cool unopened containers.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	MAK	0,15 mg/m3	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	MAK	31 mg/m3	
	STEL	10 ppm 62 mg/m3	
Silica (CAS 7631-86-9)	MAK	4 mg/m3	Inhalable fraction.

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m3	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3	
	TWA	20 ppm 31 mg/m3	

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Silica (CAS 7631-86-9)	TWA	10 ppm	
		10 mg/m <sup>3</sup>	

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value	Form
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
	TWA	20 ppm 31 mg/m <sup>3</sup>	
Silica (CAS 7631-86-9)	TWA	10 ppm	
		10 mg/m <sup>3</sup>	Inhalable fraction.
		0,07 mg/m <sup>3</sup>	Respirable fraction.

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	MAC	0,05 mg/m <sup>3</sup>	
PROPIONIC ACID (CAS 79-09-4)	MAC	31 mg/m <sup>3</sup>	
	STEL	10 ppm 62 mg/m <sup>3</sup> 20 ppm	
Silica (CAS 7631-86-9)	MAC	6 mg/m <sup>3</sup>	Total dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value	Form
Silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	Ceiling	60 mg/m <sup>3</sup>	
	TWA	30 mg/m <sup>3</sup>	
Silica (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Dust.

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TLV	0,15 mg/m <sup>3</sup>	Total
		0,05 mg/m <sup>3</sup>	Respirable.
PROPIONIC ACID (CAS 79-09-4)	TLV	31 mg/m <sup>3</sup>	
		10 ppm	

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m <sup>3</sup>	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
	TWA	20 ppm	
		30 mg/m <sup>3</sup>	
Silica (CAS 7631-86-9)	TWA	10 ppm	
		2 mg/m <sup>3</sup>	Respirable dust.

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m3	Respirable.
PROPIONIC ACID (CAS 79-09-4)	STEL	61 mg/m3	
		20 ppm	
	TWA	31 mg/m3	
		10 ppm	

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	VME	0,05 mg/m3	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	VLE	62 mg/m3	
<b>Regulatory status:</b>	Regulatory indicative (VRI)		
		20 ppm	
<b>Regulatory status:</b>	Regulatory indicative (VRI)		
	VME	31 mg/m3	
<b>Regulatory status:</b>	Regulatory indicative (VRI)		
		10 ppm	
<b>Regulatory status:</b>	Regulatory indicative (VRI)		

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
PROPIONIC ACID (CAS 79-09-4)	TWA	31 mg/m3	
		10 ppm	
Silica (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
PROPIONIC ACID (CAS 79-09-4)	AGW	31 mg/m3	
		10 ppm	
Silica (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
PROPIONIC ACID (CAS 79-09-4)	STEL	60 mg/m3	
		20 ppm	
	TWA	30 mg/m3	
		10 ppm	

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,15 mg/m3	Respirable.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3	
	TWA	31 mg/m3	

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,15 mg/m3	Total dust.
		0,05 mg/m3	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3	

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	
Silica (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Total inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.

**Italy. Occupational Exposure Limits**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,025 mg/m <sup>3</sup>	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	1 mg/m <sup>3</sup>	
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	
Silica (CAS 7631-86-9)	TWA	1 mg/m <sup>3</sup>	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m <sup>3</sup>	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value	Form
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3
		10 ppm

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,075 mg/m3	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3	
	TWA	31 mg/m3	

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TLV	0,15 mg/m3	Total dust.
		0,05 mg/m3	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	TLV	30 mg/m3	
		10 ppm	
Silica (CAS 7631-86-9)	TLV	1,5 mg/m3	Respirable dust.

**Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	2 mg/m3	Inhalable fraction.
		0,3 mg/m3	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	STEL	45 mg/m3	
		30 mg/m3	
Silica (CAS 7631-86-9)	TWA	2 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3
		10 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,025 mg/m3	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	TWA	10 ppm	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m3	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3	
		20 ppm	
	TWA	31 mg/m3	



**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
		10 ppm	

**Romania. OELs/CMRs. Protection of workers from exposure to carcinogen and mutagen agents. Hotarâre Nr. 1093 din 16 august 2006, Annex 3**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m <sup>3</sup>	Respirable dust.

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,1 mg/m <sup>3</sup>	
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	
Silica (CAS 7631-86-9)	TWA	0,3 mg/m <sup>3</sup>	

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,15 mg/m <sup>3</sup>	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	TWA	31 mg/m <sup>3</sup>	
		10 ppm	
Silica (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m <sup>3</sup>	Respirable fraction.
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	31 mg/m <sup>3</sup>	
		10 ppm	

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,05 mg/m <sup>3</sup>	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	Ceiling	62 mg/m <sup>3</sup>	
		20 ppm	
	TWA	30 mg/m <sup>3</sup>	
		10 ppm	

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0,15 mg/m <sup>3</sup>	Respirable dust.
PROPIONIC ACID (CAS 79-09-4)	STEL	60 mg/m <sup>3</sup>	
		20 ppm	
	TWA	30 mg/m <sup>3</sup>	
		10 ppm	

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	1 fibers/ml	Fiber.
		5 mg/m3	Fiber.
		0,1 mg/m3	Respirable.
PROPIONIC ACID (CAS 79-09-4)	STEL	46 mg/m3	
		15 ppm	
		31 mg/m3	
Silica (CAS 7631-86-9)	TWA	10 ppm	
		6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust.

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
PROPIONIC ACID (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
		31 mg/m3
	TWA	10 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves.

**- Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Appearance** Free flowing wettable powder.

**Physical state** Solid.

**Form** Solid.

**Colour** White.

<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	4,8 - 5,5
<b>Melting point/freezing point</b>	-21,5 °C (-6,7 °F) estimated
<b>Initial boiling point and boiling range</b>	141,1 °C (285,98 °F) estimated
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	0,95 hPa estimated
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	465,56 °C (870 °F) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Density</b>	0,80 - 1,00 g/ml
<b>Percent volatile</b>	27,84 % estimated

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Chlorine. Fluorine.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Symptoms</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.
<b>11.1. Information on toxicological effects</b>	
<b>Acute toxicity</b>	Not known.

Components	Species	Test Results
PROPIONIC ACID (CAS 79-09-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	> 20 mg/l, 8 Hours
<b>Oral</b>		
LD50	Rat	2600 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Not listed.		
<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	Not available.	

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>12.3. Bioaccumulative potential</b>	
<b>Partition coefficient n-octanol/water (log Kow)</b>	
PROPIONIC ACID	0,33
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 12.7. Additional information

#### Estonia Dangerous substances in groundwater Data

PROPIONIC ACID (CAS 79-09-4)	Pesticides (total) 0,5 ug/l
	Pesticides (total) 5 ug/l

#### Estonia Dangerous substances in soil Data

PROPIONIC ACID (CAS 79-09-4)	Synthetic pesticides (total of active substances) 0,5 mg/kg
	Synthetic pesticides (total of active substances) 20 mg/kg
	Synthetic pesticides (total of active substances) 5 mg/kg

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

**Water hazard class**

AwSV

WGK1

**SECTION 16: Other information****List of abbreviations**

Not available.

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any H-statements not written out in full under Sections 2 to 15**

H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.