



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by  
Regulation (EU) No. 2020/878

Revision Date 02-Oct-2024

Version 1

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

### 1.1. Product identifier

Product Code 80016  
Product Name 2BR FORM A GASKET #2 SEALANT 3OZ

### Other means of identification

Unique Formula Identifier (UFI) ARQH-X052-400U-HCXG

Mixture.

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

Recommended Use Sealant  
Uses advised against No information available

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

<b>Manufacturer</b> ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	<b>Only Representative (OR)</b> ITW Permatex, Inc. Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 customerservice.shannon@itwpp.com
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For further information, please contact

Contact Point ITW Permatex, Inc.  
6875 Parkland Blvd.  
Solon, Ohio 44139 USA  
Telephone: 1-87-Permatex  
(866) 732-9502

E-mail address: mail@permatex.com

Non-Emergency Telephone Number 866-732-9502

### 1.4. Emergency telephone number

24-hour emergency phone number EU Member States information as follows:

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	112
Austria	01 406 43 43
Belgium	070 245 245

Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Denmark	+ 45 8212 1212
Estonia	16662/ (+372) 7943 794
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	+49 228 192 40
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Ireland	01 809 2166
Italy	0382-24444
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	112
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chronic aquatic toxicity	Category 2 - (H411)
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### 2.2. Label elements



#### Hazard statements

H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/ container to an approved waste disposal plant.

**2.3. Other hazards**

<b>Other hazards</b>	No information available.
<b>PBT &amp; vPvB</b>	The components in this formulation do not meet the criteria for classification as PBT or vPvB.
<b>Endocrine Disruptor Information</b>	This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
KAOLIN 1332-58-7	30-60%	No data available	310-194-1	No data available	-	-	-	-
FUMARATED RESIN 65997-04-8	10-30%	No data available	266-040-8	Skin Sens.1(H317) Chronic 2(H411)	-	-	-	-
ETHANOL 64-17-5	7-13%	No data available	200-578-6 (603-002-00-5)	Flam. Liq. 2 (H225)	-	-	-	-
2-PROPANOL 67-63-0	0.5-1.5%	No data available	200-661-7 (603-117-00-0)	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	-	-	-	-
CRYSTALLINE SILICA 14808-60-7	0.5-1.5%	No data available	238-878-4	No data available	-	-	-	-
TITANIUM DIOXIDE 13463-67-7	0.1-1%	No data available	236-675-5 (022-006-00-2)	Carc. 2 (H351i)	-	-	-	V,W,10
METHANOL 67-56-1	0.1-1%	No data available	200-659-6 (603-001-00-X)	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	-
CARBON BLACK 1333-86-4	0.1-1%	No data available	215-609-9	No data available	-	-	-	-
METHYL ISOBUTYL KETONE 108-10-1	0.1-1%	No data available	203-550-1 (606-004-00-4)	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335) Carc. 2 (H351) (EUH066)	-	-	-	-

Note V - If the substance is to be placed on the market as fibers (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fiber criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W - It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Note 10 - The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of

titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
KAOLIN 1332-58-7	5000	5000	No data available	No data available	No data available
FUMARATED RESIN 65997-04-8	2000	2000	No data available	No data available	No data available
ETHANOL 64-17-5	7060	No data available	116.9 133.8	No data available	No data available
2-PROPANOL 67-63-0	1870	4059	No data available	30.1002	No data available
TITANIUM DIOXIDE 13463-67-7	2000	No data available	5.09	No data available	No data available
METHANOL 67-56-1	6200	15840	No data available	41.6976	No data available
CARBON BLACK 1333-86-4	10000	2000	0.0046	No data available	No data available
METHYL ISOBUTYL KETONE 108-10-1	2080	3000	No data available	11 + 8.1922	No data available

+ This value is the harmonized acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonized ATE value must be used when calculating the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth.

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

<b>Symptoms</b>	No information available.
<b>Effects of Exposure</b>	No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Small Fire** In case of fire, use water spray, foam, dry chemical, or CO2.  
**Large Fire** In case of fire, use water spray, foam, dry chemical, or CO2.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** No information available

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Storage class (TRGS 510)** Storage class 10.

### 7.3. Specific end use(s)

**Specific use(s)**

Automotive Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
KAOLIN 1332-58-7	-	-	TWA: 2 mg/m <sup>3</sup>	TWA: 3.0 mg/m <sup>3</sup> TWA: 6.0 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
ETHANOL 64-17-5	-	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL 2000 ppm STEL 3800 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1907 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
2-PROPANOL 67-63-0	-	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL 800 ppm STEL 2000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 980.0 mg/m <sup>3</sup> STEL: 1225.0 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 999 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup>
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
TITANIUM DIOXIDE 13463-67-7	-	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup> TWA: 1.0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL 800 ppm STEL 1040 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260.0 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL 50 ppm STEL 208 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
KAOLIN 1332-58-7	-	-	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>
ETHANOL 64-17-5	-	TWA: 1000 mg/m <sup>3</sup> Ceiling: 3000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

			STEL: 2000 ppm STEL: 3800 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>	STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>
2-PROPANOL 67-63-0	-	TWA: 500 mg/m <sup>3</sup> Sk* Ceiling: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 490 mg/m <sup>3</sup> STEL: 400 ppm STEL: 980 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 350 mg/m <sup>3</sup> STEL: 250 ppm STEL: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 620 mg/m <sup>3</sup>
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 6 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 250 mg/m <sup>3</sup> Sk* Ceiling: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 400 ppm STEL: 520 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 250 mg/m <sup>3</sup> STEL: 250 ppm STEL: 350 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 270 mg/m <sup>3</sup> STEL: 250 ppm STEL: 330 mg/m <sup>3</sup> Sk*
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 80 mg/m <sup>3</sup> Sk* Ceiling: 200 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 208 mg/m <sup>3</sup> STEL: 50 ppm Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 80 mg/m <sup>3</sup> STEL: 50 ppm STEL: 210 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
KAOLIN 1332-58-7	TWA: 10 mg/m <sup>3</sup>	-	-	-	-
ETHANOL 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup> Peak: 800 ppm Peak: 1520 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 2000 ppm STEL: 3800 mg/m <sup>3</sup>
2-PROPANOL 67-63-0	STEL: 400 ppm STEL: 980 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Peak: 400 ppm Peak: 1000 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>	TWA: 500 mg/m <sup>3</sup> TWA: 200 ppm STEL: 1000 mg/m <sup>3</sup> STEL: 400 ppm Sk*
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>	-	-	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup> Peak: 2.4 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1300 mg/m <sup>3</sup> Sk*	TWA: 100 ppm TWA: 130 mg/m <sup>3</sup> Sk*	TWA: 100 ppm TWA: 130 mg/m <sup>3</sup> Peak: 200 ppm Peak: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm STEL: 325 mg/m <sup>3</sup> Sk*	TWA: 260 mg/m <sup>3</sup> TWA: 200 ppm Sk*
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m <sup>3</sup>	-	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> Peak: 40 ppm Peak: 166 mg/m <sup>3</sup> Sk*	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> STEL: 100 ppm STEL: 410 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 208 mg/m <sup>3</sup> STEL: 50 ppm
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
KAOLIN 1332-58-7	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	-	-
ETHANOL 64-17-5	STEL: 1000 ppm	-	STEL: 1000 ppm STEL: 1884 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>

2-PROPANOL 67-63-0	TWA: 200 ppm STEL: 400 ppm Sk*	-	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 983 mg/m <sup>3</sup>	TWA: 350 mg/m <sup>3</sup> STEL: 600 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 350 mg/m <sup>3</sup> STEL: 250 ppm STEL: 600 mg/m <sup>3</sup>
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 ppm
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 600 ppm STEL: 780 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*
CARBON BLACK 1333-86-4	TWA: 3 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup>	-	-
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 82 mg/m <sup>3</sup> STEL: 75 ppm STEL: 307 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
KAOLIN 1332-58-7	-	-	-	-	TWA: 10.0 mg/m <sup>3</sup>
ETHANOL 64-17-5	-	-	TWA: 137 ppm TWA: 260 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup> Sk*	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
2-PROPANOL 67-63-0	-	-	-	TWA: 100 ppm TWA: 245 mg/m <sup>3</sup> STEL: 150 ppm STEL: 306.25 mg/m <sup>3</sup>	TWA: 900 mg/m <sup>3</sup> STEL: 1200 mg/m <sup>3</sup> Sk*
CRYSTALLINE SILICA 14808-60-7	-	-	TWA: 0.075 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup> STEL: 0.9 mg/m <sup>3</sup> STEL: 0.15 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
TITANIUM DIOXIDE 13463-67-7	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 100 ppm TWA: 133 mg/m <sup>3</sup> Sk*	TWA: 100 ppm TWA: 130 mg/m <sup>3</sup> STEL: 150 ppm STEL: 162.5 mg/m <sup>3</sup> Sk*	TWA: 100 mg/m <sup>3</sup> STEL: 300 mg/m <sup>3</sup> Sk* Prohibited - substances or mixtures containing Methanol in weight concentration >3%;except fuels used in the model building, powerboating, fuel cells and biofuels
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
METHYL ISOBUTYL KETONE	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup>	TWA: 83 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup>



108-10-1	STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 208 mg/m <sup>3</sup> Sk*	
<b>Chemical name</b>	<b>Portugal</b>	<b>Romania</b>	<b>Slovakia</b>	<b>Slovenia</b>	<b>Spain</b>
KAOLIN 1332-58-7	TWA: 2 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>
ETHANOL 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling: 1920 mg/m <sup>3</sup>	TWA: 960 mg/m <sup>3</sup> TWA: 500 ppm STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1910 mg/m <sup>3</sup>
2-PROPANOL 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 81 ppm TWA: 200 mg/m <sup>3</sup> STEL: 203 ppm STEL: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Ceiling: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>
CRYSTALLINE SILICA 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> TWA: 0,1 mg/m <sup>3</sup> STEL: 0.5 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 250 ppm Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 800 ppm STEL: 1040 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> Sk*
CARBON BLACK 1333-86-4	TWA: 3 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup>
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> Sk* Ceiling: 208 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 83 mg/m <sup>3</sup> STEL: 50 ppm STEL: 208 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Sweden</b>		<b>Switzerland</b>	<b>United Kingdom</b>	
KAOLIN 1332-58-7	-		TWA: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	
ETHANOL 64-17-5	NGV: 500 ppm NGV: 1000 mg/m <sup>3</sup> Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m <sup>3</sup>		TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup> STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>	
2-PROPANOL 67-63-0	NGV: 150 ppm NGV: 350 mg/m <sup>3</sup> Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m <sup>3</sup>		TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 999 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup>	
CRYSTALLINE SILICA 14808-60-7	NGV: 0.1 mg/m <sup>3</sup>		TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>	
TITANIUM DIOXIDE 13463-67-7	NGV: 5 mg/m <sup>3</sup>		TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	
METHANOL 67-56-1	NGV: 200 ppm NGV: 250 mg/m <sup>3</sup> Vägledande KGV: 250 ppm Vägledande KGV: 350 mg/m <sup>3</sup> Sk*		TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> STEL: 400 ppm STEL: 520 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> Sk*	
CARBON BLACK 1333-86-4	NGV: 3 mg/m <sup>3</sup>		-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	
METHYL ISOBUTYL KETONE 108-10-1	NGV: 20 ppm NGV: 83 mg/m <sup>3</sup>		TWA: 20 ppm TWA: 82 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 208 mg/m <sup>3</sup>	

	Bindande KGV: 50 ppm Bindande KGV: 200 mg/m <sup>3</sup>	STEL: 40 ppm STEL: 164 mg/m <sup>3</sup> Sk*	STEL: 100 ppm STEL: 416 mg/m <sup>3</sup> Sk*
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**Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
2-PROPANOL 67-63-0	-	-	-	50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift	-
CRYSTALLINE SILICA 14808-60-7	-	(Note 1)	-	-	-
METHANOL 67-56-1	-	-	-	7.0 mg/g Creatinine - urine (Methanol) - at the end of the work shift	0.47 mmol/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol end of shift)
CARBON BLACK 1333-86-4	-	(Note 1)	-	-	-
METHYL ISOBUTYL KETONE 108-10-1	-	-	-	3.5 mg/L - urine (4-Methyl-pentan-2-on) - not critical	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
2-PROPANOL 67-63-0	-	-	-	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift)
METHANOL 67-56-1	-	-	- urine (Methanol) - end of shift	15 mg/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol for long-term exposures: at the end of the shift after several shifts) 15 mg/L - BAT (end of exposure or end of shift) urine	15 mg/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol for long-term exposures: at the end of the shift after several shifts)
METHYL ISOBUTYL KETONE 108-10-1	-	-	- urine (Methylisobutylketone) - end of shift	0.7 mg/L (urine - 4-Methylpentan-2-one end of shift) 0.7 mg/L - BAT (end of exposure or end of shift) urine	0.7 mg/L (urine - 4-Methylpentan-2-one end of shift)
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
2-PROPANOL	-	40 mg/L (urine -	-	40 mg/L - urine	

67-63-0		Acetone end of shift at end of workweek)		(Acetone) - end of shift at end of workweek
METHANOL 67-56-1	30 mg/L (urine - Methanol end of shift) 940 µmol/L (urine - Methanol end of shift)	15 mg/L (urine - Methanol end of shift)	-	15 mg/L - urine (Methanol) - end of shift
METHYL ISOBUTYL KETONE 108-10-1	-	1 mg/L (urine - Methyl isobutyl ketone end of shift)	-	1 mg/L - urine (MIBK) - end of shift
Chemical name	Latvia	Luxembourg	Romania	Slovakia
2-PROPANOL 67-63-0	-	-	50 mg/L - urine (Acetone) - end of shift	-
METHANOL 67-56-1	-	-	6 mg/L - urine (Methanol) - end of shift	30 mg/L (urine - Methanol end of exposure or work shift) 30 mg/L (urine - Methanol after all work shifts)
METHYL ISOBUTYL KETONE 108-10-1	-	-	-	3.5 mg/L (urine - 4-Methyl-2-pentanone end of exposure or work shift)
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
2-PROPANOL 67-63-0	25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift	40 mg/L (urine - Acetone end of workweek)	25 mg/L (urine - Acetone end of shift) 0.4 mmol/L (urine - Acetone end of shift) 25 mg/L (whole blood - Acetone end of shift) 0.4 mmol/L (whole blood - Acetone end of shift)	-
METHANOL 67-56-1	15 mg/L - urine (Methanol) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	15 mg/L (urine - Methanol end of shift)	30 mg/L (urine - Methanol end of shift, and after several shifts (for long-term exposures)) 936 µmol/L (urine - Methanol end of shift, and after several shifts (for long-term exposures))	-
METHYL ISOBUTYL KETONE 108-10-1	0.7 mg/L - urine (4-Methylpentan-2-one) - at the end of the work shift	1 mg/L (urine - Methyl isobutyl ketone end of shift)	0.7 mg/L (urine - 4-Methylpentane-2-one end of shift)	20 µmol/L - urine (4-Methylpentan-2-one) - post shift

**Note 1:** Details about BEL values can be found in Annex 2 of the Austrian Ordinance on Health Monitoring in the Workplace.

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
VEGETABLE OIL 68187-84-8	-	69.4 mg/kg bw/day [4] [6]	49 mg/m <sup>3</sup> [4] [6]
ETHANOL 64-17-5	-	343 mg/kg bw/day [4] [6]	950 mg/m <sup>3</sup> [4] [6] 1900 mg/m <sup>3</sup> [5] [7]
2-PROPANOL 67-63-0	-	888 mg/kg bw/day [4] [6]	500 mg/m <sup>3</sup> [4] [6]
METHANOL 67-56-1	-	20 mg/kg bw/day [4] [6] 20 mg/kg bw/day [4] [7]	130 mg/m <sup>3</sup> [4] [6] 130 mg/m <sup>3</sup> [4] [7]

Chemical name	Oral	Dermal	Inhalation
			130 mg/m <sup>3</sup> [5] [6] 130 mg/m <sup>3</sup> [5] [7]
CARBON BLACK 1333-86-4	-	-	1 mg/m <sup>3</sup> [4] [6] 0.5 mg/m <sup>3</sup> [5] [6]
METHYL ISOBUTYL KETONE 108-10-1	-	11.8 mg/kg bw/day [4] [6]	83 mg/m <sup>3</sup> [4] [6] 208 mg/m <sup>3</sup> [4] [7] 83 mg/m <sup>3</sup> [5] [6] 208 mg/m <sup>3</sup> [5] [7]

**Notes**

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
VEGETABLE OIL 68187-84-8	8.33 mg/kg bw/day [4] [6]	-	14.5 mg/m <sup>3</sup> [4] [6]
ETHANOL 64-17-5	87 mg/kg bw/day [4] [6]	-	114 mg/m <sup>3</sup> [4] [6] 950 mg/m <sup>3</sup> [5] [7]
2-PROPANOL 67-63-0	26 mg/kg bw/day [4] [6]	-	89 mg/m <sup>3</sup> [4] [6]
METHANOL 67-56-1	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]	26 mg/m <sup>3</sup> [4] [6] 26 mg/m <sup>3</sup> [4] [7] 26 mg/m <sup>3</sup> [5] [6] 26 mg/m <sup>3</sup> [5] [7]
CARBON BLACK 1333-86-4	-	-	0.06 mg/m <sup>3</sup> [4] [6]
METHYL ISOBUTYL KETONE 108-10-1	4.2 mg/kg bw/day [4] [6]	-	14.7 mg/m <sup>3</sup> [4] [6] 155.2 mg/m <sup>3</sup> [4] [7] 14.7 mg/m <sup>3</sup> [5] [6] 155.2 mg/m <sup>3</sup> [5] [7]

**Notes**

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2-PROPANOL 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L	-	-
METHANOL 67-56-1	20.8 mg/L	1540 mg/L	2.08 mg/L	-	-
METHYL ISOBUTYL KETONE 108-10-1	0.6 mg/L	1.5 mg/L	0.06 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
VEGETABLE OIL 68187-84-8	-	-	1.55 mg/L	-	66.7 mg/kg food
2-PROPANOL 67-63-0	552 mg/kg sediment dw	552 mg/kg sediment dw	2251 mg/L	28 mg/kg soil dw	160 mg/kg food
METHANOL 67-56-1	77 mg/kg sediment dw	7.7 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	-
METHYL ISOBUTYL KETONE 108-10-1	8.27 mg/kg sediment dw	0.83 mg/kg sediment dw	27.5 mg/L	1.3 mg/kg soil dw	-

## 8.2. Exposure controls

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Hand protection** Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection** Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards** No information available.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Paste / Gel Liquid  
**Appearance** Black  
**Color** Black  
**Odor** Alcohol.  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	Estimated
<b>Boiling point / boiling range</b>	82 °C	
<b>Flammability (solid, gas)</b>	No data available	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	

<b>Flash point</b>	No data available	CC (closed cup)
<b>Autoignition temperature</b>	No data available	Estimated
<b>Decomposition temperature</b>		Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
<b>pH</b>	No data available	10% in deionized water
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No Data Available	Kinematic viscosity at 100 degrees C
<b>Dynamic viscosity</b>	No data available	Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
<b>Water solubility</b>	No data available	Partially soluble
	None known	
<b>Solubility(ies)</b>	No Data Available	None known
<b>Partition coefficient</b>	No Data Available	None known
<b>Vapor pressure</b>	33 mm Hg @ 68°F	
<b>Relative density</b>	1.5	
<b>Bulk density</b>	자료 없음	
<b>Density</b>	No data available	
<b>Vapor density</b>	2.0	Air = 1
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

**9.2. Other information**

**VOC content** 10.978

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available 7.7 Ether = 1

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerization** No information available.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 6,874.10 mg/kg  
 ATEmix (dermal) 9,074.80 mg/kg  
 ATEmix (inhalation-gas) 99,999.00 ppm  
 ATEmix (inhalation-vapor) 1,848.80 mg/l  
 ATEmix (inhalation-dust/mist) 75.50 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
KAOLIN	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	-
FUMARATED RESIN	> 2000 mg/kg ( Rat )	= 2000 mg/kg ( Rat )	-
ETHANOL	= 7060 mg/kg ( Rat )	-	= 116.9 mg/L ( Rat ) 4 h = 133.8 mg/L ( Rat ) 4 h
2-PROPANOL	5050 mg/kg	12800 mg/kg	> 10000 ppm ( Rat ) 6 h
TITANIUM DIOXIDE	> 2000 mg/kg ( Rat )	-	> 5.09 mg/L ( Rat ) 4 h
METHANOL	= 6200 mg/kg ( Rat )	= 15840 mg/kg ( Rabbit )	= 22500 ppm ( Rat ) 8 h
CARBON BLACK	> 10000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h
METHYL ISOBUTYL KETONE	= 2080 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	2000 - 4000 ppm ( Rat ) 4 h

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
TITANIUM DIOXIDE	Carc. 2
METHYL ISOBUTYL KETONE	Carc. 2

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
FUMARATED RESIN	-	LC50: =3.2mg/L (96h, Brachydanio rerio)	-	-
ETHANOL	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus)	-	LC50: 9268 - 14221mg/L (48h,



		mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)		Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
2-PROPANOL	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)
METHANOL	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)	-	-
METHYL ISOBUTYL KETONE	EC50: =400mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 496 - 514mg/L (96h, Pimephales promelas)	-	EC50: =170mg/L (48h, Daphnia magna)

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation**

Chemical name	Partition coefficient
FUMARATED RESIN	7
ETHANOL	-0.35
2-PROPANOL	0.05
METHANOL	-0.77
METHYL ISOBUTYL KETONE	1.9

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
FUMARATED RESIN	The substance is not PBT / vPvB
ETHANOL	The substance is not PBT / vPvB

2-PROPANOL	The substance is not PBT / vPvB
TITANIUM DIOXIDE	The substance is not PBT / vPvB
METHANOL	The substance is not PBT / vPvB
CARBON BLACK	The substance is not PBT / vPvB
METHYL ISOBUTYL KETONE	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** ID8000  
**14.2 UN proper shipping name** Consumer Commodity  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazards** Not applicable  
**14.6 Special precautions for user**  
**Special Provisions** A112  
**ERG Code** 9L

**IMDG**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (FUMARATED RESIN)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(FUMARATED RESIN), 9, III, LTD QTY  
**14.5 Environmental hazards** Not applicable  
**14.6 Special precautions for user**  
**Special Provisions** 274, 335, 969  
**EmS-No.** F-A, S-F  
**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (FUMARATED RESIN)  
**14.3 Transport hazard class(es)** 9

<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s.(FUMARATED RESIN), 9, III, LTD QTY
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification code</b>	M6

**ADR**

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (FUMARATED RESIN)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s.(FUMARATED RESIN), 9, III, (-) LTD QTY
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 601, 375
<b>Classification code</b>	M6
<b>Tunnel restriction code</b>	(-)

**ADN**

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (FUMARATED RESIN)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s.(FUMARATED RESIN), 9, III, LTD QTY
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification code</b>	M6
<b>Equipment Requirements</b>	PP

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
ETHANOL - 64-17-5	RG 84
2-PROPANOL - 67-63-0	RG 84
CRYSTALLINE SILICA - 14808-60-7	RG 25
METHANOL - 67-56-1	RG 84
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
METHYL ISOBUTYL KETONE - 108-10-1	RG 84

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Number	Class
CRYSTALLINE SILICA	5.2.7.1.1	-
METHANOL	5.2.5	Class I

**Netherlands****Carcinogenic, mutagenic and reproductive toxic effects**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
ETHANOL	Present	-	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding
CRYSTALLINE SILICA	Present	-	-

**Switzerland**

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Group I  
**Storage of Hazardous Material** SC 10/12  
**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Class A

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
2-PROPANOL - 67-63-0	75	-
TITANIUM DIOXIDE - 13463-67-7	75	-
METHANOL - 67-56-1	69 75	-
CARBON BLACK - 1333-86-4	75	-
METHYL ISOBUTYL KETONE - 108-10-1	75	-

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Named dangerous substances per Seveso Directive (2012/18/EU)**

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
METHANOL - 67-56-1	500	5000

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CRYSTALLINE SILICA - 14808-60-7	Plant protection agent
CARBON BLACK - 1333-86-4	Plant protection agent

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
ETHANOL - 64-17-5	Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct

	application to humans or animals Product-type 4: Food and feed area
2-PROPANOL - 67-63-0	Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECI</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies
<b>TCSI</b>	Contact supplier for inventory compliance status

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

- H225 - Highly flammable liquid and vapor  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H331 - Toxic if inhaled  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H351 - Suspected of causing cancer  
H351i - Suspected of causing cancer if inhaled  
H370 - Causes damage to organs  
H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
 STOT: Specific Target Organ Toxicity  
 ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

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**End of Safety Data Sheet**