



SAFETY DATA SHEET

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

Revision Date 11-Feb-2025

Version 1

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

1.1. Product identifier

Product Code 25228

Product Name PERMATEX 90 MINUTE RIGHT STUFF 3 OZ.

Other means of identification

Unique Formula Identifier (UFI) YH6J-Y0VA-T00Y-935K

Mixture. Contains 2-BUTANONE OXIME

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

Manufacturer

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

Only Representative (OR)

ITW Permatex, Inc.
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
customerservice.shannon@itwpp.com

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]

Carcinogenicity	Category 1B - (H350)
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2.2. Label elements

Contains 2-BUTANONE OXIME



Signal word

Danger

Hazard statements

H350 - May cause cancer.

EUH208 Contains 2-BUTANONE OXIME May produce an allergic reaction.

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

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

39.685 % of the mixture consists of ingredient(s) of unknown acute toxicity.

3.985 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0.835 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

39.685 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

39.685 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

11.535 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 58.685 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Other hazards

No information available.

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information

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
CALCIUM CARBONATE 471-34-1	10-30%	No data available	207-439-9	No data available	-	-	-	-
LIMESTONE 1317-65-3	10-30%	No data available	215-279-6	No data available	-	-	-	-
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	3-7%	No data available	265-149-8 (649-422-00-2)	Asp. Tox. 1 (H304)	-	-	-	-
POLYDIMETHYLSILOXANE 63148-62-9	1-5%	No data available	-	No data available	-	-	-	-
STEARIC ACID 57-11-4	1-5%	No data available	200-313-4	No data available	-	-	-	-
ALUMINIUM POWDER 7429-90-5	0.1-1%	No data available	231-072-3 (013-002-00-1) (013-001-00-6)	Flam. Sol. 1 (H228) Water-react. 2 (H261)	-	-	-	T
CARBON BLACK 1333-86-4	0.1-1%	No data available	215-609-9	No data available	-	-	-	-
2-BUTANONE OXIME 96-29-7	0.1-1%	No data available	202-496-6 (616-014-00-0)	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) STOT SE 3 (H336) STOT SE 1 (H370) Carc. 1B (H350)	-	-	-	-

				STOT RE 2 (H373)				
MINERAL OIL 8042-47-5	0.1-1%	No data available	232-455-8	No data available	-	-	-	-
CRYSTALLINE SILICA 14808-60-7	<0.1%	No data available	238-878-4	No data available	-	-	-	-

Note T - This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

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 (ATEmix) 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
CALCIUM CARBONATE 471-34-1	6450	2000	3	No data available	No data available
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	5000	2000	No data available	No data available	No data available
POLYDIMETHYLSILOXANE 63148-62-9	24000	No data available	No data available	No data available	No data available
STEARIC ACID 57-11-4	4600	2000	No data available	No data available	No data available
ALUMINIUM POWDER 7429-90-5	No data available	No data available	0.888	No data available	No data available
CARBON BLACK 1333-86-4	10000	2000	0.0046	No data available	No data available
2-BUTANONE OXIME 96-29-7	100 + 930	1100 + 1000	No data available	No data available	No data available
MINERAL OIL 8042-47-5	5000	No data available	No data available	No data available	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 (ATEmix) 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

General advice	IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

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

Symptoms No information available.

Effects of Exposure May cause cancer.

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.

Other information Refer to protective measures listed in Sections 7 and 8.

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	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
Packaging materials	No information available.
Storage class (TRGS 510)	Storage class 6.1C.

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.

Other Information
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
CALCIUM CARBONATE 471-34-1	-	-	-	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³
LIMESTONE 1317-65-3	-	-	TWA: 10 mg/m ³	TWA: 10.0 mg/m ³	-
ALUMINIUM POWDER 7429-90-5	-	TWA: 10 mg/m ³ STEL 20 mg/m ³	TWA: 1 mg/m ³	TWA: 10.0 mg/m ³ TWA: 1.5 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
2-BUTANONE OXIME 96-29-7	-	Sh+	-	-	-
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
LIMESTONE 1317-65-3	-	TWA: 10.0 mg/m ³	-	TWA: 10 mg/m ³ TWA: 5 mg/m ³	-
ALUMINIUM POWDER 7429-90-5	-	TWA: 10.0 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³ STEL: 10 mg/m ³ STEL: 4 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 1.5 mg/m ³
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.3 mg/m ³ TWA: 0.1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.2 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
CALCIUM CARBONATE	TWA: 10 mg/m ³	-	-	-	-

471-34-1					
LIMESTONE 1317-65-3	-	-	-	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	-	TWA:	TWA: 5 mg/m ³ TWA: 50 ppm TWA: 350 mg/m ³ Peak: 20 mg/m ³ Peak: 100 ppm Peak: 700 mg/m ³	-	-
ALUMINIUM POWDER 7429-90-5	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1.25 mg/m ³ TWA: 10 mg/m ³	TWA: 0.5 mg/m ³ TWA: 0.05 mg/m ³ Peak: 0.4 mg/m ³ Peak: 4 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³
2-BUTANONE OXIME 96-29-7	-	TWA: 0.3 ppm TWA: 1 mg/m ³ Sk* Sh+	Sk* skin sensitizer	-	-
MINERAL OIL 8042-47-5	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Peak: 20 mg/m ³	-	TWA: 5 mg/m ³
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m ³	-	-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
CALCIUM CARBONATE 471-34-1	-	-	-	TWA: 6 mg/m ³	-
LIMESTONE 1317-65-3	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	-	-	-	-
STEARIC ACID 57-11-4	-	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-	-
ALUMINIUM POWDER 7429-90-5	TWA: 1 mg/m ³ STEL: 3 mg/m ³	-	TWA: 1 mg/m ³	TWA: 2 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ STEL: 15 mg/m ³	-	TWA: 3 mg/m ³	-	-
2-BUTANONE OXIME 96-29-7	TWA: 3 ppm TWA: 10 mg/m ³ STEL: 10 ppm STEL: 33 mg/m ³ Sens+	-	-	-	-
MINERAL OIL 8042-47-5	-	-	-	TWA: 5 mg/m ³	-
CRYSTALLINE SILICA 14808-60-7	TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.025 mg/m ³	-	TWA: 0.1 ppm
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
CALCIUM CARBONATE 471-34-1	-	-	-	-	TWA: 10 mg/m ³
ALUMINIUM POWDER 7429-90-5	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 mg/m ³
CRYSTALLINE SILICA 14808-60-7	-	-	TWA: 0.075 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.3 mg/m ³ STEL: 0.9 mg/m ³ STEL: 0.15 mg/m ³	TWA: 0.1 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
LIMESTONE 1317-65-3	-	TWA: 10 mg/m ³	-	-	-
POLYDIMETHYLSILOXANE 63148-62-9	-	TWA: 200 mg/m ³ STEL: 300 mg/m ³ Sk*	-	-	-

ALUMINIUM POWDER 7429-90-5	TWA: 1 mg/m ³	TWA: 3 mg/m ³ TWA: 1 mg/m ³ STEL: 10 mg/m ³ STEL: 3 mg/m ³	TWA: 4 mg/m ³ TWA: 1.5 mg/m ³	-	TWA: 1 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³ Ceiling: 10 mg/m ³	-	TWA: 3.5 mg/m ³
2-BUTANONE OXIME 96-29-7	-	-	-	TWA: 1 mg/m ³ TWA: 0.3 ppm STEL: 2.4 ppm STEL: 8 mg/m ³ Sk*	-
MINERAL OIL 8042-47-5	-	-	-	TWA: 5 mg/m ³ STEL: 20 mg/m ³	-
CRYSTALLINE SILICA 14808-60-7	TWA: 0.025 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.5 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
CALCIUM CARBONATE 471-34-1	-		TWA: 3 mg/m ³ TWA: 10 mg/m ³		-
LIMESTONE 1317-65-3	-		-		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	-		TWA: 50 ppm TWA: 350 mg/m ³ TWA: 5 mg/m ³ STEL: 100 ppm STEL: 700 mg/m ³		-
ALUMINIUM POWDER 7429-90-5	NGV: 5 mg/m ³ NGV: 2 mg/m ³		TWA: 3 mg/m ³ TWA: 10 mg/m ³		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
CARBON BLACK 1333-86-4	NGV: 3 mg/m ³		-		TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
MINERAL OIL 8042-47-5	-		TWA: 5 mg/m ³		-
CRYSTALLINE SILICA 14808-60-7	NGV: 0.1 mg/m ³		TWA: 0.15 mg/m ³		TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
ALUMINIUM POWDER 7429-90-5	-	60 µg/g Creatinine - urine (Aluminum) - after end of work day, at the end of a work week/end of the shift (Note 1)	-	200 µg/L - urine (Aluminum) - at the end of the work shift	-
CARBON BLACK 1333-86-4	-	(Note 1)	-	-	-
CRYSTALLINE SILICA 14808-60-7	-	(Note 1)	-	-	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
ALUMINIUM POWDER 7429-90-5	-	-	-	50 µg/g Creatinine (urine - Aluminum for long-term exposures: at the end of the shift after several shifts) 50 µg/g Creatinine -	50 µg/g Creatinine (urine - Aluminum for long-term exposures: at the end of the shift after several shifts)

				BAT (for long-term exposures: at the end of the shift after several shifts) urine 15 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
ALUMINIUM POWDER 7429-90-5	50 µg/g Creatinine - urine (Aluminum) - end of shift	-	200 µg/L - urine (Aluminum) - end of shift	60 µg/g creatinine (urine - Aluminum not critical)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
ALUMINIUM POWDER 7429-90-5	50 µg/L - urine (Aluminum) - for long-term exposure: at the end of the work shift after several consecutive workdays	-	50 µg/g creatinine (urine - Aluminum after several shifts (for long-term exposures)) 0.21 µmol/mmol creatinine (urine - Aluminum after several shifts (for long-term exposures))	-	

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
CALCIUM CARBONATE 471-34-1	-	-	6.36 mg/m ³ [5] [6]
VINYL OXIMINOSILANE 2224-33-1	-	0.15 mg/kg bw/day [4] [6]	1.06 mg/m ³ [4] [6]
STEARIC ACID 57-11-4	-	10 mg/kg bw/day [4] [6]	17.632 mg/m ³ [4] [6]
CARBON BLACK 1333-86-4	-	-	1 mg/m ³ [4] [6] 0.5 mg/m ³ [5] [6]
OXIMINOSILANE 34206-40-1	-	0.134 mg/kg bw/day [4] [6]	0.942 mg/m ³ [4] [6]
2-BUTANONE OXIME 96-29-7	-	1.3 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7]	9 mg/m ³ [4] [6] 3.33 mg/m ³ [5] [6]
MINERAL OIL 8042-47-5	-	217.05 mg/kg bw/day [4] [6]	164.56 mg/m ³ [4] [6]

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
CALCIUM CARBONATE 471-34-1	6.1 mg/kg bw/day [4] [6] 6.1 mg/kg bw/day [4] [7]	-	1.06 mg/m ³ [5] [6]
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	18.75 mg/kg bw/day [4] [6]	-	-
VINYL OXIMINOSILANE 2224-33-1	0.075 mg/kg bw/day [4] [6]	-	0.26 mg/m ³ [4] [6]
STEARIC ACID 57-11-4	2.5 mg/kg bw/day [4] [6]	-	4.348 mg/m ³ [4] [6]
CARBON BLACK 1333-86-4	-	-	0.06 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
OXIMINOSILANE 34206-40-1	0.067 mg/kg bw/day [4] [6]	-	0.232 mg/m ³ [4] [6]
2-BUTANONE OXIME 96-29-7	-	1.5 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7]	2.7 mg/m ³ [4] [6] 2 mg/m ³ [5] [6]
MINERAL OIL 8042-47-5	25 mg/kg bw/day [4] [6]	-	34.78 mg/m ³ [4] [6]

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
VINYL OXIMINOSILANE 2224-33-1	0.01919 mg/L	-	0.001919 mg/L	-	-
OXIMINOSILANE 34206-40-1	0.0171 mg/L	-	0.00171 mg/L	-	-
GAMMA-AMINOPROPYL TRIMETHOXSILANE 13822-56-5	0.5 mg/L	2.05 mg/L	0.05 mg/L	-	-
2-BUTANONE OXIME 96-29-7	0.256 mg/L	0.118 mg/L	-	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CALCIUM CARBONATE 471-34-1	-	-	100 mg/L	-	-
VINYL OXIMINOSILANE 2224-33-1	1136.562 mg/kg sediment dw	113.656 mg/kg sediment dw	4.06 mg/L	133.8 mg/kg soil dw	3.333 mg/kg food
ALUMINIUM POWDER 7429-90-5	-	-	20 mg/L	-	-
OXIMINOSILANE 34206-40-1	9835.346 mg/kg sediment dw	983.535 mg/kg sediment dw	4.825 mg/L	1157.93 mg/kg soil dw	2.97 mg/kg food
GAMMA-AMINOPROPYL TRIMETHOXSILANE 13822-56-5	1.8 mg/kg sediment dw	0.18 mg/kg sediment dw	0.81 mg/L	0.069 mg/kg soil dw	11.1 mg/kg food
2-BUTANONE OXIME 96-29-7	-	-	177 mg/L	-	-

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 Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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.
Other protective equipment	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	Paste
Color	Black
Odor	Mild
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	Boiling point / boiling range No data available
Polymerization		Flammability (solid, gas) No data available
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	> 95 °C	Tag Closed Cup
Autoignition temperature	No data available	Decomposition temperature
pH	No data available	
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No Data Available	Dynamic viscosity No data available
Water solubility	No data available	Polymerization
Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	<5 mmHg @ 70°F	
Relative density	1.44	
Bulk density	No data available	
Density	No data available	
Vapor density	3	Air = 1
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC content	<3%
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9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
Remarks	No Data Available.

10.2. Chemical stability

Stability	Stable under normal conditions.
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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** Carbon oxides. Nitrogen oxides (NOx). Formaldehyde. May release 2-butanone oxime (ethyl methyl ketoxime) at elevated temperature.**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) 13,069.70 mg/kg

ATEmix (dermal) 5,149.90 mg/kg

ATEmix (inhalation-gas) 99,999.00 ppm

ATEmix (inhalation-vapor) 99,999.00 mg/l

ATEmix (inhalation-dust/mist) 9.43 mg/l

3.985 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0.835 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

39.685 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

39.685 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

11.535 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat) 4 h

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
POLYDIMETHYLSILOXANE	> 24 g/kg (Rat)	-	-
STEARIC ACID	= 4600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
ALUMINIUM POWDER	-	-	> 0.888 mg/L (Rat) 4 h
CARBON BLACK	> 10000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.6 mg/m ³ (Rat) 4 h
2-BUTANONE OXIME	= 930 mg/kg (Rat)	1000 - 1800 mg/kg (Rabbit)	> 4.83 mg/L (Rat) 4 h
MINERAL OIL	> 5000 mg/kg (Rat)	-	-

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 Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

Chemical name	European Union
2-BUTANONE OXIME	Carc. 1B

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****Unknown aquatic toxicity**

Contains 58.685 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	-	LC50: =45mg/L (96h, Pimephales promelas) LC50: =2.2mg/L (96h, Lepomis macrochirus) LC50: =2.4mg/L (96h, Oncorhynchus mykiss)	-	-
2-BUTANONE OXIME	EC50: =83mg/L (72h, Desmodesmus subspicatus)	LC50: 777 - 914mg/L (96h, Pimephales promelas) LC50: =760mg/L (96h, Poecilia reticulata)	-	EC50: =750mg/L (48h, Daphnia magna)
MINERAL OIL	-	LC50: >10000mg/L (96h, Lepomis macrochirus)	-	-

12.2. Persistence and degradability**Persistence and degradability**

No information available.

12.3. Bioaccumulative potential**Bioaccumulation**

Chemical name	Partition coefficient
2-BUTANONE OXIME	0.65
MINERAL OIL	6

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
CALCIUM CARBONATE	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	The substance is not PBT / vPvB
STEARIC ACID	The substance is not PBT / vPvB
ALUMINIUM POWDER	The substance is not PBT / vPvB
CARBON BLACK	The substance is not PBT / vPvB
2-BUTANONE OXIME	The substance is not PBT / vPvB
MINERAL OIL	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.
Other information	No information available.

Section 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADN

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user	
Special Provisions	None

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
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT - 64742-47-8	RG 84
ALUMINIUM POWDER - 7429-90-5	RG 32
	RG 16, RG 16bis
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
MINERAL OIL - 8042-47-5	RG 36bis
CRYSTALLINE SILICA - 14808-60-7	RG 25

Germany**Water hazard class (WGK)** strongly hazardous to water (WGK 3)**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Number	Class
CRYSTALLINE SILICA	5.2.7.1.1	-

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

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
2-BUTANONE OXIME	Present	-	-
CRYSTALLINE SILICA	Present	-	-

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
WPO (GSchV) SR 814.201; WPA (GSchV) SR 814.20 Not applicable

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
CALCIUM CARBONATE - 471-34-1	75	-
ALUMINIUM POWDER - 7429-90-5	75	-
CARBON BLACK - 1333-86-4	75	-
2-BUTANONE OXIME - 96-29-7	75	-
	28	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

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

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CALCIUM CARBONATE - 471-34-1	Plant protection agent
CARBON BLACK - 1333-86-4	Plant protection agent

MINERAL OIL - 8042-47-5	Plant protection agent
CRYSTALLINE SILICA - 14808-60-7	Plant protection agent

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies
TCSI	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 any hazard and/or precautionary statements referred to under Sections 2-15**

H228 - Flammable solid
 H261 - In contact with water releases flammable gas
 H301 - Toxic if swallowed
 H304 - May be fatal if swallowed and enters airways
 H312 - Harmful in contact with skin
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H336 - May cause drowsiness or dizziness
 H350 - May cause cancer
 H370 - Causes damage to organs
 H373 - May cause damage to organs through prolonged or repeated exposure

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
Chronic aquatic toxicity	Calculation method
Acute 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