



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 07-Nov-2024

Version 1

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

1.1. Product identifier

Product Code 25223
Product Name THE RIGHT STUFF GASKET MAKER 4 OZ AE

Other means of identification

Unique Formula Identifier (UFI) NKQH-W0S8-H00U-6PSC
Mixture. Contains CARBON BLACK; 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	Only Representative (OR)
ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	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]

Chemicals under pressure	Category 3 - (H284)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 1B - (H350)

2.2. Label elements

Contains CARBON BLACK; 2-BUTANONE OXIME



Signal word
Danger

Hazard statements

H284 - Chemical under pressure: May explode if heated.
H317 - May cause an allergic skin reaction.
H350 - May cause cancer.
EUH208 - Contains 2-BUTANONE OXIME May produce an allergic reaction.

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

P203 - Obtain, read and follow all safety instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P318 - IF exposed or concerned, get medical advice.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P317 - If skin irritation or rash occurs: Get medical help.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P376 - Stop leak if safe to do so.
P405 - Store locked up.
P410 + P403 - Protect from sunlight. Store in a well-ventilated place.
P501 - Dispose of contents/ container to an approved waste disposal plant.

Unknown acute toxicity

50.362 % of the mixture consists of ingredient(s) of unknown acute toxicity.
9.356 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
5.825 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
50.362 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
50.362 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
12.506 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Unknown aquatic toxicity

Contains 0.825 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

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	15-40%	No data available	207-439-9	No data available	-	-	-	-

471-34-1								
POLYDIMETHYLSILOXANE 63148-62-9	7-13%	No data available	-	No data available	-	-	-	-
STEARIC ACID 57-11-4	1-5%	No data available	200-313-4	No data available	-	-	-	-
CARBON BLACK 1333-86-4	0.5-1.5%	No data available	215-609-9	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
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	-	-	-	-

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 (ATE_{mix}) 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
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
CARBON BLACK 1333-86-4	10000	2000	0.0046	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
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 (ATE_{mix}) 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	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.
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	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms	Coughing and/ or wheezing. Difficulty in breathing.
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.
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. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
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	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
----------------------------------	---

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. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
---------------------------	--

Storage class (TRGS 510)

Storage class 6.1A.

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
CALCIUM CARBONATE 471-34-1	-	-	-	-	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
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
2-BUTANONE OXIME 96-29-7	-	Sh+	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
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
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
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
CALCIUM CARBONATE 471-34-1	TWA: 10 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
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
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
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
CALCIUM CARBONATE 471-34-1	-	-	-	TWA: 6 mg/m ³	-
STEARIC ACID 57-11-4	-	-	TWA: 10 mg/m ³ TWA: 3 mg/m ³	-	-
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ STEL: 15 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
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	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
CALCIUM CARBONATE 471-34-1	-	-	-	-	TWA: 10 mg/m ³
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 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
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
POLYDIMETHYLSILOXANE 63148-62-9	-	TWA: 200 mg/m ³ STEL: 300 mg/m ³ Sk*	-	-	-
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
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
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	-
Chemical name	Sweden		Switzerland		United Kingdom
CALCIUM CARBONATE 471-34-1	-		TWA: 3 mg/m ³ TWA: 10 mg/m ³		-
CARBON BLACK 1333-86-4	NGV: 3 mg/m ³		-		TWA: 3.5 mg/m ³ STEL: 7 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
MINERAL OIL 8042-47-5	-		TWA: 5 mg/m ³		-

Biological occupational exposure limits

Chemical name	European Union	Austria (Note 1)	Bulgaria	Croatia	Czech Republic
CARBON BLACK 1333-86-4	-	-	-	-	-
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	-	200 µg/L - urine (Aluminum) - at the end of the work shift	-

		(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 - 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	50 µg/g Creatinine (urine - Aluminum for long-term exposures: at the end of the shift after several shifts)
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]
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]
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	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

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
13822-56-5					
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 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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
Color Black
Odor No information available.
Odor threshold No information available

Property

Melting point / freezing point
Boiling point / boiling range
Flammability (solid, gas)

Values

No data available
No data available
No data available

Remarks • Method

Estimated
Polymerization
Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
None known

Flammability Limit in Air

Upper flammability limit: No data available
Lower flammability limit: No data available
Flash point > 95 °C

Autoignition temperature No data available

Decomposition temperature

Tag Closed Cup

Estimated
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.

pH

pH (as aqueous solution) No data available

Kinematic viscosity No Data Available

Dynamic viscosity No data available

None known

Kinematic viscosity at 100 degrees C

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.
Water solubility	No data available	Not applicable
Solubility(ies)	No Data Available	Polymerization
Partition coefficient	No Data Available	None known
Vapor pressure	<5 mmHg @ 70°F	None known
Relative density	1.34	
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%

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available < 1 Butyl acetate = 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 Excessive heat.

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. Fatal if inhaled. (based on components).
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	Coughing and/ or wheezing. Difficulty in breathing.
-----------------	---

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

Acute toxicity	Fatal if inhaled.
-----------------------	-------------------

Numerical measures of toxicity

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

ATEmix (oral) 12,148.50 mg/kg
ATEmix (dermal) 4,492.70 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-vapor) 99,999.00 mg/l
ATEmix (inhalation-dust/mist) 0.381 mg/l

Unknown acute toxicity

9.356 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
5.825 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
50.362 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
50.362 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
12.506 % 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
POLYDIMETHYLSILOXANE	> 24 g/kg (Rat)	-	-
STEARIC ACID	= 4600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
CARBON BLACK	> 10000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.6 mg/m ³ (Rat) 4 h
ALUMINIUM POWDER	-	-	> 0.888 mg/L (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 0.825 % of components with unknown hazards to the aquatic environment.
---------------------------------	---

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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
STEARIC ACID	The substance is not PBT / vPvB
CARBON BLACK	The substance is not PBT / vPvB
ALUMINIUM POWDER	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.

Section 14: Transport information

IATA

14.1 UN number or ID number	UN3500
14.2 UN proper shipping name	Chemical under pressure, n.o.s.
14.3 Transport hazard class(es)	2.2
14.4 Packing group	Not regulated
Description	UN3500, Chemical under pressure, n.o.s. (nitrogen), 2.2
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	A187
ERG Code	2L

IMDG

14.1 UN number or ID number	UN3500
14.2 UN proper shipping name	Chemical under pressure, n.o.s.
14.3 Transport hazard class(es)	2.2
14.4 Packing group	Not regulated
Description	UN3500, Chemical under pressure, n.o.s. (nitrogen), 2.2
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	274, 362
EmS-No.	F-C, S-V,
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN3500
14.2 UN proper shipping name	Chemical under pressure, n.o.s.
14.3 Transport hazard class(es)	2.2
14.4 Packing group	Not regulated
Description	UN3500, Chemical under pressure, n.o.s. (nitrogen), 2.2
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	UN3500
14.2 UN proper shipping name	Chemical under pressure, n.o.s.
14.3 Transport hazard class(es)	2.2
14.4 Packing group	Not regulated
Description	UN3500, Chemical under pressure, n.o.s. (nitrogen), 2.2
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
Classification code	5F

ADN

14.1 UN number or ID number	UN3500
14.2 UN proper shipping name	Chemical under pressure, n.o.s.
14.3 Transport hazard class(es)	2.2
14.4 Packing group	Not regulated
Description	UN3500, Chemical under pressure, n.o.s. (nitrogen), 2.2
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
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
ALUMINIUM POWDER - 7429-90-5	RG 32 RG 16, RG 16bis
MINERAL OIL - 8042-47-5	RG 36bis

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

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	-	-

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
WPO (GSchV) SR 814.201; WPA (GSchG) 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	-
CARBON BLACK - 1333-86-4	75	-
ALUMINIUM POWDER - 7429-90-5	75	-
2-BUTANONE OXIME - 96-29-7	75 28	-

Persistent Organic Pollutants

Not applicable

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

H2 - ACUTE TOXIC

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)
CALCIUM CARBONATE - 471-34-1	Plant protection agent
CARBON BLACK - 1333-86-4	Plant protection agent
MINERAL OIL - 8042-47-5	Plant protection agent

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

International Inventories

TSCA	Complies
DSL/NDL	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/NDL - 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

H228 - Flammable solid
H261 - In contact with water releases flammable gas
H301 - Toxic if swallowed
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
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

Revision Date 07-Nov-2024**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****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.

End of Safety Data Sheet