

**Three Bond 1215**

Material number TB1215

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name: Three Bond 1215

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

General use: FIPG sealants for industrial and professional automotive applications

**1.3 Details of the supplier of the safety data sheet**

Company name: Three Bond GmbH  
Street/POB-No.: Giesenheide 40  
Postal Code, city: 40724 Hilden  
WWW: www.threebond.de  
E-mail: info@threebond.de  
Telephone: 0049-(0)2103/789 58 - 0  
Telefax: 0049-(0)2103/789 58 - 58  
Department responsible for information:  
Email: msds@threebond.de

**1.4 Emergency telephone number**

**GIZ-Nord, Göttingen, Germany,  
Telephone: +49 551-19240**

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Eye Dam. 1; H318 Causes serious eye damage.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Carc. 1B; H350 May cause cancer.

**2.2 Label elements****Labelling (CLP)**

Signal word:

**Danger**

Hazard statements:

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H350 May cause cancer.

Precautionary statements:

P201 Obtain special instructions before use.  
P261 Avoid breathing mist/vapours.  
P280 Wear protective gloves/protective clothing/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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**Special labelling**

Text for labelling:

Contains:

Butan-2-one O,O',O''-(vinylsilyldiylne)trioxime;  
Butan-2-one O,O',O''-(methylsilyldiylne)trioxime;  
2-Butanone oxime (MEKO).  
Restricted to professional users.

**2.3 Other hazards**

Under the influence of humidity this product may release further MEKO.  
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

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

3.1 Substances: not applicable

**3.2 Mixtures**

Hazardous ingredients:

| Ingredient   | Designation   | Content | Classification  |
|--|---|---------|---|
| REACH 01-2119970537-27-xxxx<br>EC No. 218-747-8<br>CAS 2224-33-1 | Butan-2-one<br>O,O',O''-<br>(vinylsilyldiylne)<br>trioxime  | 3 - 5 % | Eye Dam. 1; H318.<br>Skin Sens. 1B; H317. STOT RE 2; H373.  |
| EC No. 245-366-4<br>CAS 22984-54-9                               | Butan-2-one<br>O,O',O''-<br>(methylsilyldiylne)<br>trioxime | 1 - 3 % | Eye Irrit. 2; H319. Skin Sens. 1; H317.<br>STOT RE 2; H373.   |
| EC No. 203-625-9<br>CAS 108-88-3                                 | Toluene   | < 1 %   | Flam. Liq. 2; H225. Skin Irrit. 2; H315.<br>Eye Irrit. 2; H319. Repr. 2; H361d.<br>STOT SE 3; H336. STOT RE 2; H373.<br>Asp. Tox. 1; H304.<br>Aquatic Chronic 3; H412.            |
| EC No. 202-496-6<br>CAS 96-29-7                                  | 2-Butanone<br>oxime (MEKO)                                  | < 1 %   | Acute Tox. 3; H301.<br>Acute Tox. 4; H312. Skin Irrit. 2; H315.<br>Eye Dam. 1; H318. Skin Sens. 1; H317.<br>Carc. 1B; H350. STOT SE 1; H370.<br>STOT SE 3; H336. STOT RE 2; H373. |

Full text of H- and EUH-statements: see section 16.

Additional information:

Under the influence of humidity this product may release further MEKO.  
Contains Calcium carbonate. The maximum workplace exposure limits are, where necessary, listed in section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information:

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  
Take off contaminated clothing and wash it before reuse.  
First aider: Pay attention to self-protection!

In case of inhalation:

Move victim to fresh air. Seek medical attention if problems persist.

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- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician. Take off contaminated clothing and wash it before reuse.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

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

Causes serious eye damage. May cause an allergic skin reaction.

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

Treat symptomatically.

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

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, carbon dioxide, Water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet

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

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), traces of incompletely burned carbon compounds, silicon dioxide, formaldehyde, carbon monoxide and carbon dioxide.

**5.3 Advice for firefighters**

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers.

Do not allow fire water to penetrate into surface or ground water.

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

Avoid exposure. Provide adequate ventilation. Avoid breathing mist/vapours. Avoid contact with the substance. Take off contaminated clothing and wash it before reuse. If possible, eliminate leakage. Keep unprotected people away. Eliminate all ignition sources if safe to do so.

**6.2 Environmental precautions**

Do not allow to enter into ground-water, surface water or drains.  
If necessary notify appropriate authorities.

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

In case of spills of large quantities: Plug leak if safely possible. Dam spills. Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

Small quantities: Wipe up with absorbent material (eg. cloth, fleece). Final cleaning. Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

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**6.4 Reference to other sections**

Refer additionally to section 8 and 13.

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

Advices on safe handling: Avoid exposure - obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Wear appropriate protective equipment. Avoid breathing mist/vapours. Avoid contact with skin and eyes.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

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

Requirements for storerooms and containers:

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed. Protect from humidity and water.

Do not drop, drag or bang the container. Store containers in upright position.

Keep container dry. Do not re-use the empty container.

Hints on joint storage:

Do not store together with strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Occupational exposure limit values:

| CAS No.  | Designation | Type                    | Limit value   |
|----------|-------------|-------------------------|---|
| 108-88-3 | Toluene     | Europe: IOELV: STEL     | 384 mg/m <sup>3</sup> ; 100 ppm<br>(may be absorbed through the skin) |
|          |             | Europe: IOELV: TWA      | 192 mg/m <sup>3</sup> ; 50 ppm<br>(may be absorbed through the skin)  |
|          |             | Great Britain: WEL-STEL | 384 mg/m <sup>3</sup> ; 100 ppm<br>(may be absorbed through the skin) |
|          |             | Great Britain: WEL-TWA  | 191 mg/m <sup>3</sup> ; 50 ppm<br>(may be absorbed through the skin)  |

**8.2 Exposure controls**

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.

**Personal protection equipment****Occupational exposure controls**

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type A-(P3) according to EN 14387.

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|  |   |
|--|---|
| Hand protection:                         | Protective gloves according to EN 374.<br>Observe glove manufacturer's instructions concerning penetrability and breakthrough time.   |
| Eye protection:                          | Tightly sealed goggles according to EN 166.   |
| Body protection:                         | Wear suitable protective clothing.  |
| General protection and hygiene measures: | Avoid exposure - obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. |

**Environmental exposure controls**

Refer to "6.2 Environmental precautions".

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

|  |  |
|--|--|
| Appearance:                              | Physical state at 20 °C and 101.3 kPa: liquid<br>Form: Pasty<br>Colour: grey |
| Odour:                                   | oxime  |
| Odour threshold:                         | No data available  |
| pH:                                      | No data available  |
| Melting point/freezing point:            | No data available  |
| Initial boiling point and boiling range: | No data available  |
| Flash point/flash point range:           | > 60 °C (c.c.)   |
| Evaporation rate:                        | No data available  |
| Flammability:                            | No data available  |
| Explosion limits:                        | No data available  |
| Vapour pressure:                         | at 25 °C: Negligible   |
| Vapour density:                          | > 1 (Air =1)   |
| Density:                                 | at 23 °C: 1.58 g/mL  |
| Water solubility:                        | Insoluble  |
| Partition coefficient: n-octanol/water:  | No data available  |
| Auto-ignition temperature:               | No data available  |
| Decomposition temperature:               | No data available  |
| Viscosity, kinematic:                    | No data available  |
| Explosive properties:                    | No data available  |
| Oxidizing characteristics:               | No data available  |

**9.2 Other information**

|                         |                   |
|-------------------------|-------------------|
| Additional information: | No data available |
|-------------------------|-------------------|

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

Under the influence of humidity this product releases butanone-oxime (MEKO).

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Protect from moisture contamination. Keep away from heat sources, sparks and open flames.

## 10.5 Incompatible materials

Water, humidity, strong oxidizing agents

## 10.6 Hazardous decomposition products

2-Butanone oxime (MEKO)

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: Nitrogen oxides (NO<sub>x</sub>), traces of incompletely burned carbon compounds, silicon dioxide, formaldehyde, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Carc. 1B; H350 = May cause cancer.

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

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Other information: Information about 2-Butanone oxime (MEKO, CAS 96-29-7):  
LD50 Rat, oral: > 900 mg/kg; ATE, oral: 100 mg/kg  
LD50 Rabbit, dermal: 200 - 2,000 mg/kg; ATE, dermal: 1,100 mg/kg  
LC50 Rat, inhalative: > 4.83 mg/L/4h

This product can generate small amounts of formaldehyde at approximately 150 °C and above in the presence of air.

Information about formaldehyde: Toxic if swallowed, in contact with skin or if inhaled. May cause cancer. Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause an allergic skin reaction.

**Symptoms**

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

**SECTION 12: Ecological information****12.1 Toxicity**

Aquatic toxicity: Information about Toluene:  
Harmful to aquatic life with long lasting effects.  
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 5.46 - 9.83 mg/L/48h.  
Fish toxicity: LC50 Oncorhynchus mykiss: 5.5 mg/L/96h

**12.2 Persistence and degradability**

Further details: No data available

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water:  
No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

General information: Do not allow to enter into ground-water, surface water or drains.

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

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other dangerous substances.  
MFSU = manufacture, formulation, supply and use  
\* = Evidence for disposal must be provided.

Recommendation: Special waste. Incinerate according to applicable local, state and federal regulations.

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**Package**

Recommendation: 150102: Plastic packaging  
150104: Metallic packaging  
Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID, IMDG, IATA-DGR:  
not applicable

**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR:  
Not restricted

**14.3 Transport hazard class(es)**

ADR/RID, IMDG, IATA-DGR:  
not applicable

**14.4 Packing group**

ADR/RID, IMDG, IATA-DGR:  
not applicable

**14.5 Environmental hazards**

Marine pollutant: no

**14.6 Special precautions for user**

No dangerous good in sense of these transport regulations.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code: -  
No data available

**National regulations - EC member states**

Further regulations, limitations and legal requirements:  
Use restriction according to REACH annex XVII, no.: 3, 28, 40, 75

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.



**SECTION 16: Other information****Further information**

Wording of the H-phrases under paragraph 2 and 3:

- H225 = Highly flammable liquid and vapour.
- 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.
- H319 = Causes serious eye irritation.
- H336 = May cause drowsiness or dizziness.
- H350 = May cause cancer.
- H361d = Suspected of damaging the unborn child.
- H370 = Causes damage to organs.
- H373 = May cause damage to organs through prolonged or repeated exposure.
- H412 = Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EC50: Effective Concentration 50%
- EN: European Standard
- EQ: Excepted quantities
- EU: European Union
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- MFSU: Manufacture, formulation, supply and use
- OEL: Occupational Exposure Limit Value
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- STOT RE: Specific target organ toxicity - repeated exposure
- STOT SE: Specific target organ toxicity - single exposure
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU)  
No. 2015/830

Revision date: 29/8/2022  
Version: 17.0  
Language: en-GB,IE  
Date of print: 23/11/2022

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Reason of change: Changes in section 2: Classification, labelling  
Changes in section 3: Composition/information on ingredients  
General revision

Date of first version: 5/2/2004

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.