

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 1 of 17

Silicone Sealant - Oxime - Black

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

1.1 Product identifier

Product Name: Silicone Sealant - Oxime - Black

Product code: 32329, 32929, 32509



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

Relevant identified uses: Not determined or not applicable.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

United States

J-B Weld Company, LLC

1130 COMO ST.

SULPHUR SPRINGS, TX 75482

903-885-7696

info@jbweld.com

1.4 Emergency telephone number:

United States

CHEMTREC

Transportation Emergencies (24 hour): 800-424-9300 or

703-527-3887

Poison Control Centers (24 hour): medical emergencies 800-222-1222

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

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

Serious eye damage, category 1

Skin sensitization, category 1

Skin irritation, category 2

Carcinogenicity, category 1B

Hazard-determining components of labeling:

Liquid Additive

Liquid Additive

Liquid Additive

Liquid Additive

Liquid Additive

Liquid Additive

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H315+H320 Causes skin and eye irritation.

H350 May cause cancer.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 2 of 17

Silicone Sealant - Oxime - Black

Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P264 Wash skin and eyes thoroughly after handling.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P281 Use personal protective equipment as required.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P362 Take off contaminated clothing and wash before reuse
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P308+P313 If exposed or concerned: Get medical advice/attention
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 1333-86-4 EC number: 215-609-9	Powder	Not classified	<1
CAS number: 13463-67-7 EC number: 236-675-5	Titanium Dioxide	Not classified	<3
CAS number: 1317-65-3 EC number: 215-279-6	Powder	Not classified	<25
CAS number: 7631-86-9 EC number: 231-545-4	Powder Additive	Not classified	<10
CAS number: 919-30-2 EC number: 213-048-4	Liquid Additive	Not classified	<1
CAS number: 70131-67-8	Resin	Not classified	<60

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 3 of 17

Silicone Sealant - Oxime - Black

CAS number: 63148-62-9 EC number: 613-156-5	Liquid Additive	Not classified	<10
CAS number: 64742-46-7 EC number: 265-148-2	Liquid Additive	Carc. 1B; H350	<10
CAS number: 17689-77-9 EC number: 241-677-4	Liquid Additive	Not classified	<5
CAS number: 22984-54-9 EC number: 245-366-4	Liquid Additive	Not classified	<5
CAS number: 96-29-7 EC number: 202-496-6	Liquid Additive	Acute Tox. 4; H312 Skin Sens. 1; H317 Eye Dam. 1; H318 Carc. 2; H351	<5
CAS number: 2224-33-1 EC number: 218-747-8	Liquid Additive	Not classified	<5
CAS number: 1345-16-0 EC number: 310-193-6	Powder	Not classified	<1

Additional information:

Although this product contains Titanium Dioxide, the Titanium Dioxide is bound and the particles are not of respirable size.

Carbon black is classified as a carcinogen only in its respirable form. Since the carbon black in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Not determined or not available.

Following inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Following skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

Following eye contact:

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 4 of 17

Silicone Sealant - Oxime - Black

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective gloves, if necessary
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

Following ingestion:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media:

Not determined or not applicable.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Personal protection equipment:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Ensure air handling systems are operational.
Wear protective eye wear, gloves and clothing.

6.2 Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).
Dispose of contents / container in accordance with local regulations.

6.4 Reference to other sections:

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 5 of 17

Silicone Sealant - Oxime - Black

Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

Not determined or not applicable.

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Finland	Liquid Additive	919-30-2	8-hour limit: 28 mg/m ³ (3 ppm)
	Liquid Additive	919-30-2	15-minute limit: 55 mg/m ³ (6 ppm)
	Powder	1345-16-0	8-Hour Limit: 0.02 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³
	Powder	1333-86-4	Workplace Exposure Limits: 3.5 mg/m ³ (8 hr); 7.0 mg/m ³ (15 min)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour limit: 5 mg/m ³
	Liquid Additive	64742-46-7	8-hour limit: 5 mg/m ³
Romania	Liquid Additive	63148-62-9	8-Hour TWA: 200 mg/m ³
	Liquid Additive	63148-62-9	15-minute STEL: 300 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Titanium Dioxide	13463-67-7	OEL: STEL 15 mg/m ³ 15-min
	Liquid Additive	64742-46-7	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Liquid Additive	64742-46-7	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Liquid Additive	64742-46-7	8-hour TWA: 100 mg/m ³ [Solvent naphtha (coal tar)]
	Liquid Additive	64742-46-7	15-minute STEL: 200 mg/m ³ [Solvent naphtha (coal tar)]

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 6 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Germany	Liquid Additive	96-29-7	8-hr TWA 0.3 ppm (1.0 mg/m ³)
	Powder Additive	7631-86-9	Limit value: 4 mg/m ³
Bulgaria	Powder	1345-16-0	TWA: 2.0 mg/m ³ (Aluminum, soluble inorganic compounds, as Al)
	Powder	1345-16-0	TWA: 0.1 mg/m ³ (Cobalt and its inorganic compounds, as Co)
	Liquid Additive	64742-46-7	TWA: 5.0 mg/m ³ (Oil - mineral, petroleum)
	Powder	1317-65-3	TWA: 10 mg/m ³
	Powder Additive	7631-86-9	TWA: 0.07 mg/m ³ (Free silicon dioxide, amorphous, synthetic from condensation and electrothermal processes, respirable fraction)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ (Respirable dust)
	Powder Additive	7631-86-9	TWA: 10 mg/m ³ (Free silicon dioxide, amorphous, synthetic from condensation and electrothermal processes, inhalable fraction)
	Powder Additive	7631-86-9	TWA: 4 mg/m ³ (Free silicon dioxide, amorphous and crystalline, from natural sedimentation (opal, chalcedony, etc.), inhalable fraction)
Ireland	Powder Additive	7631-86-9	TWA: 1 mg/m ³ (Free silicon dioxide, amorphous and crystalline, from natural sedimentation (opal, chalcedony, etc.), respirable fraction)
	Liquid Additive	96-29-7	8-hr TWA: 10 mg/m ³ (3 ppm); 15-min STEL: 33 mg/m ³ (10 ppm)
	Powder	1345-16-0	8-Hour TWA: 0.1 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³ (Total dust); 4 mg/m ³ (Respirable dust)
	Powder	1333-86-4	2016 Code of Practice for Chemical Agents Regulations 2001: TWA 3.0 mg/m ³ (8 hr) OEL
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ (Inhalable dust) 8-hr
	Powder Additive	7631-86-9	8-hour OEL (TWA): 6 mg/m ³ (Silica, amorphous, Total inhalable dust)
	Powder Additive	7631-86-9	8-hour OEL (TWA): 2.4 mg/m ³ (Silica, amorphous, Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m ³ (Respirable dust) 8-hr
Liquid Additive	64742-46-7	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)	

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 7 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Croatia	Powder	1345-16-0	Maximum (8 hr) allowable concentration: 0.1 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³ (Total dust); 4 mg/m ³ (Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ (Total dust) 15-min
	Powder	1333-86-4	Dangerous Substances Exposure Limit Values in the Workplace: 3.5 mg/m ³ (8hr); 7.0 mg/m ³ (15 min)
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m ³ (Respirable dust) 15-min
	Powder Additive	7631-86-9	Maximum (8 hr) allowable concentration: 6 mg/m ³ (Total dust)
	Powder Additive	7631-86-9	Maximum (8 hr) allowable concentration: 2.4 mg/m ³ (Respirable dust)
Czech Republic	Liquid Additive	64742-46-7	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Liquid Additive	64742-46-7	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Powder	1345-16-0	8-hour TWA: 0.05 mg/m ³
	Powder	1345-16-0	Ceiling limit (NPK-P): 0.1 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³
	Powder	1333-86-4	Government Decree 361/2007 Sb.: TWA 2.0 mg/m ³ (8 hr)
	Powder Additive	7631-86-9	8-hour TWA: 4.0 mg/m ³ (dust)
Estonia	Liquid Additive	64742-46-7	8-hour TWA: 1 mg/m ³ [Oil (naphtha) vapors]
	Powder	1345-16-0	8-hour TWA: 0.05 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³ ; 5 mg/m ³ (Fine dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour TWA: 2 mg/m ³ (fine dust)
Hungary	Liquid Additive	64742-46-7	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Powder	1345-16-0	8-Hour TWA (ÁK Value): 0.1 mg/m ³
	Powder	1345-16-0	60-Minute STEL (CK Value): 0.4 mg/m ³
	Powder	1317-65-3	ÁK Value TWA 8-hr: 221 mg/m ³ ; CK Value STEL 60-min 442 mg/m ³
Latvia	Liquid Additive	64742-46-7	8-hour TWA: 10 mg/m ³ (Naphtha)
	Liquid Additive	64742-46-7	8-hour TWA: 100 mg/m ³ (Petroleum benzin)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour TWA: 1 mg/m ³

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 8 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Cyprus	Powder	1333-86-4	Control of factory atmosphere and dangerous substances in factories regulation: TWA 3.5 mg/m ³ (8 hr)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour TWA: 5 mg/m ³ (Silicon dioxide (amorphous) (particles > 5 micrometers))
	Powder Additive	7631-86-9	8-hour TWA: 2 mg/m ³ (Silicon dioxide (amorphous) (particles > 5 micrometers))
Lithuania	Powder	1345-16-0	8-hour TWA: 0.05 mg/m ³
	Liquid Additive	64742-46-7	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Liquid Additive	64742-46-7	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Liquid Additive	64742-46-7	8-hour TWA: 180 mg/m ³ (50 ppm) [Petrol ether (industrial) - hexane based]
	Liquid Additive	64742-46-7	15-minute STEL: 250 mg/m ³ (75 ppm) [Petrol ether (industrial) - hexane based]
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m ³ 8-hr
	Liquid Additive	64742-46-7	8-hour TWA: 800 mg/m ³ (200 ppm) [Petrol ether (industrial) - heptane based (< 5% n-hexane)]
	Liquid Additive	64742-46-7	15-minute STEL: 1200 mg/m ³ (300 ppm) [Petrol ether (industrial) - heptane based (< 5% n-hexane)]
	Liquid Additive	64742-46-7	8-hour TWA: 900 mg/m ³ (200 ppm) [Petrol ether (industrial) - octane based]
	Liquid Additive	64742-46-7	15-minute STEL: 1400 mg/m ³ (300 ppm) [Petrol ether (industrial) - octane based]
Poland	Powder	1345-16-0	8-hour TWA (NDS): 0.02 mg/m ³
	Powder	1333-86-4	Dz.U.Poz. 817/2014, Annex 1: TWA (NDS) 4.0 mg/m ³ (8 hr)
	Titanium Dioxide	13463-67-7	OEL: TWA (NDS) 10.0 mg/m ³ 8-hr
	Liquid Additive	64742-46-7	8-hour TWA (NDS): 500 mg/m ³ (Benzine, extraction)
	Powder Additive	7631-86-9	8-hour TWA (NDS): 10 mg/m ³ (Dusts of amorphous and synthetic silicas, amorphous synthetic silica (precipitated and gel), inhalable fraction)
	Liquid Additive	64742-46-7	15-minute STEL (NDSCh): 1500 mg/m ³ (Benzine, extraction)
	Powder Additive	7631-86-9	8-hour TWA (NDS): 2 mg/m ³ (Dusts of amorphous and synthetic silicas, amorphous synthetic silica (precipitated and gel), respirable fraction)

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 9 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Liquid Additive	64742-46-7	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
Slovakia	Powder	1345-16-0	8-Hour TWA (NPEL): 0.05 mg/m ³
	Powder	1317-65-3	NPEL TWA 8-hr: 10 mg/m ³
	Powder	1333-86-4	Regulation No. 355.2006 concerning protection of workers exposed to chemical agents, Annex 1: TWA (NPEL) 2.0 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: TWA (NPEL) 5 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour TWA (NPEL): 4 mg/m ³ (Silica, amorphous (heat and wet processes, unfired diatomaceous earth, diatomite))
	Powder Additive	7631-86-9	8-hour TWA (NPEL): 0.3 mg/m ³ (Silica, amorphous (fused silica, fused silica, fumes, burnt diatomaceous earth))
	Liquid Additive	64742-46-7	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Liquid Additive	64742-46-7	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
Denmark	Powder	1345-16-0	TWA: 0.01 mg/m ³
	Powder	1333-86-4	Exposure Limits for Substances & Materials: TWA 3.5 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: TWA 6.0 mg/m ³
	Liquid Additive	64742-46-7	TWA: 1 mg/m ³
Belgium	Powder	1333-86-4	Exposure Limit Value: TWA 3.5 mg/m ³ (8 hr)
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Powder Additive	7631-86-9	8-hour TWA: 10 mg/m ³
	Liquid Additive	64742-46-7	8-hour TWA: 5 mg/m ³ [Mineral oils (mist)]
	Liquid Additive	64742-46-7	15-minute STEL: 10 mg/m ³ [Mineral oils (mist)]
Greece	Powder	1345-16-0	8-Hour TWA: 0.1 mg/m ³
	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³ (Inhalable dust); 5 mg/m ³ (Respirable dust)
	Powder	1333-86-4	Decree 307/1986: TWA 3.5mg/m ³ (8 hr); STEL 7.0 mg/m ³ (15 min)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ (Inhalable) 8-hr
	Titanium Dioxide	13463-67-7	OEL: TWA 5.0 mg/m ³ (Respirable dust) 8-hr
	Liquid Additive	64742-46-7	8-hour TWA: 5 mg/m ³ [Paraffin oil (mist)]
France	Powder	1317-65-3	VME TWA: 10 mg/m ³

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 10 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Powder	1333-86-4	Threshold Limit Values (VLEP): Time weighted average (VME) 3.5 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: (VME) 10 mg/m ³
Italy	Powder	1345-16-0	8-Hour TWA: 0.02 mg/m ³
	Powder	1333-86-4	Legislative Decree n.81: TWA 3.0 mg/m ³ (8 hr)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Liquid Additive	64742-46-7	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
Portugal	Powder	1345-16-0	8-Hour exposure limit: 0.02 mg/m ³
	Powder	1333-86-4	VLE: 3.5 mg/m ³ (8 hr)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ 8-hr
	Liquid Additive	64742-46-7	8-hour exposure limit: 400 ppm
	Liquid Additive	64742-46-7	8-hour exposure limit: 5 mg/m ³
	Liquid Additive	64742-46-7	Short-term exposure limit: 10 mg/m ³
United Kingdom	Powder	1317-65-3	TWA 8-hr: 10 mg/m ³ (Total dust); 4 mg/m ³ (Respirable dust)
	Powder	1345-16-0	TWA: 0.1 mg/m ³
	Powder	1333-86-4	WEL: TWA 3.5 mg/m ³ ; STEL 7.0 mg/m ³
	Powder Additive	7631-86-9	TWA: 6 mg/m ³ (Silica, amorphous, inhalable dust)
	Powder Additive	7631-86-9	TWA: 2.4 mg/m ³ (Silica, amorphous, respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m ³ (Total dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m ³ (Respirable dust)
Spain	Powder	1345-16-0	8-Hour daily exposure limit (VLA_ED): 0.02 mg/m ³
	Powder	1333-86-4	VLA: VLA_ED 3.5 mg/m ³ (8 hr)
	Titanium Dioxide	13463-67-7	OEL: (VLA_ED) 10.0 mg/m ³ 8-hr
	Liquid Additive	64742-46-7	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Liquid Additive	64742-46-7	15-minute STEL (VLA-EC): 10 mg/m ³
Austria	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: STEL 10 mg/m ³
	Powder Additive	7631-86-9	TWA: 4 mg/m ³
Sweden	Powder	1345-16-0	Level Limit Value (NGV): 0.02 mg/m ³
	Titanium Dioxide	13463-67-7	OEL: (NGV) 5.0 (Total dust) mg/m ³
	Liquid Additive	64742-46-7	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 11 of 17

Silicone Sealant - Oxime - Black

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Liquid Additive	64742-46-7	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
Slovenia	Powder Additive	7631-86-9	8-hour TWA: 4 mg/m ³ (Silica, inhalable fraction)
European Union	Liquid Additive	64742-46-7	SCOEL: 8-hour TWA: 5 mg/m ³
Netherlands	Liquid Additive	64742-46-7	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (mineral oil)]

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Not determined or not applicable.

Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls
Biological monitoring may also be appropriate for some substances

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

Environmental exposure controls:

Select controls based on a risk assessment of local conditions.

See section 6 for information on accidental release measures.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Black paste
Odor	Not available
Odor threshold	Not available
pH	Not available

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 12 of 17

Silicone Sealant - Oxime - Black

Melting point/freezing point	Not available
Initial boiling point/range	Not available
Flash point (closed cup)	100°C (212°F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Density	1.427
Relative density	Not available
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

None known.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Liquid Additive	oral	LD50 Rat: 1780 mg/kg
		LD50 Rat: 2326 mg/kg
	dermal	LD50 Rabbit: > 1000 mg/kg

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 13 of 17

Silicone Sealant - Oxime - Black

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
Liquid Additive	Causes severe skin burns and eye damage.
	Causes serious eye damage.
	Causes severe skin burns and eye damage.
	Causes skin irritation

Serious eye damage/irritation

Assessment: Causes serious eye damage

Product data:

No data available.

Substance data:

Name	Result
Liquid Additive	Causes serious eye damage.
	Causes serious eye irritation
	Causes skin irritation

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Liquid Additive	May cause an allergic skin reaction
	May cause an allergic skin reaction.
	May cause an allergic skin reaction.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data:

Name	Species	Result
Liquid Additive		May cause cancer.
Titanium Dioxide	Not applicable.	Airborne, unbound particles of respirable size are known to cause cancer.
Powder	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.

International Agency for Research on Cancer (IARC):

Name	Classification
Powder Additive	Group 3 - Not classifiable as to its carcinogenicity to humans
Titanium Dioxide	Group 2B
Powder	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 14 of 17

Silicone Sealant - Oxime - Black

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Liquid Additive	LC50 - Oryzias latipes - > 100 mg/L - 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data:

Name	Result
Liquid Additive	NOEC - Oryzias latipes - ~ 50 mg/L - 14 d

12.2 Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Liquid Additive	Inherent degradability in water and soil.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 15 of 17

Silicone Sealant - Oxime - Black

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment:

Liquid Additive	The substance is not PBT.
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vPvB assessment:

Liquid Additive	The substance is not vPvB.
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12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Relevant information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information


International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN 1760
UN proper shipping name	Corrosive Liquids, N.O.S. (Liquid Additive)
UN transport hazard class(es)	8 
Packing group	I
Environmental hazards	None
Special precautions for user	None

Safety Data Sheet


According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 16 of 17

Silicone Sealant - Oxime - Black

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1760
UN proper shipping name	Corrosive Liquids, N.O.S. (Liquid Additive)
UN transport hazard class(es)	8 
Packing group	I
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS):

70131-67-8	Resin	Not Listed
1333-86-4	Powder	Listed
63148-62-9	Liquid Additive	Listed
64742-46-7	Liquid Additive	Listed
17689-77-9	Liquid Additive	Listed
919-30-2	Liquid Additive	Listed
22984-54-9	Liquid Additive	Listed
96-29-7	Liquid Additive	Listed
2224-33-1	Liquid Additive	Listed
7631-86-9	Powder Additive	Listed
1317-65-3	Powder	Listed
13463-67-7	Titanium Dioxide	Listed
1345-16-0	Powder	Listed

REACH SVHC candidate list: Not determined.

REACH SVHC Authorizations: Not determined.

REACH Restriction: Not determined.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Resin	70131-67-8	Class 1
Liquid Additive	63148-62-9	1
Liquid Additive	22984-54-9	1
Liquid Additive	96-29-7	1
Liquid Additive	2224-33-1	1
Powder	1317-65-3	Non-hazardous to water.
Titanium Dioxide	13463-67-7	Non-hazardous to water.
Powder	1345-16-0	nwg non-hazardous to water

Other regulations

Germany TA Luft: Class II; Base rate: 2.5 kg/hr; Maximum concentration allowed if emissions meet or exceed base rate: 0.5 g/m³

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 07.29.2018

Page 17 of 17

Silicone Sealant - Oxime - Black

Germany MAK: 8-hour TWA: 4 mg/m³ (Inhalable fraction)

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes:

Not applicable.

Abbreviations and Acronyms: None

Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Serious eye damage, category 1	Calculation method
Skin sensitization, category 1	Calculation method
Skin irritation, category 2	Calculation method
Carcinogenicity, category 1B	Calculation method

Summary of classification in section 3:

Carc. 1B; H350	Carcinogenicity, category 1B
Acute Tox. 4; H312	Acute toxicity (dermal), category 4
Skin Sens. 1; H317	Skin sensitization, category 1
Eye Dam. 1; H318	Serious eye damage, category 1
Carc. 2; H351	Carcinogenicity, category 2

Summary of hazard statements in section 3:

H350	May cause cancer
H312	Harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-0-0

HMIS: 3-0-0

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End of Safety Data Sheet