

**ARC GLAZING &
 CONSTRUCTION SILICONE**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** ARC GLAZING & CONSTRUCTION SILICONE
- 1.2 Relevant identified uses of the substance or mixture:**
 Relevant uses: PC1: Adhesives, sealants.
- 1.3 Details of the supplier of the safety data sheet:**
 Arc Building Products
 IDA Business & Technology Park,
 Ballynattin, Arklow, Co. Wicklow, Ireland.
 www.arcbuildingproducts.ie
 Fax: +353 (0)402 24168
 Tel: +353 (0)402 41200
 Tel: +353 (0)402 32370
- 1.4 Emergency telephone number:**

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification under CLP: -: EUH208; -: EUH210
 Classification under CHIP: This product has no classification under CHIP.

2.2. Label elements

Label elements under CLP:
 Hazard statements: EUH208: Contains 2-butanonoxime, n-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
 EUH210: Safety data sheet available on request.

Label elements under CHIP:
 Precautionary phrases: Contains 2-butanone oxime. May produce an allergic reaction.
 Safety data sheet available for professional user onrequest.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous ingredients:

METHYLTRIS(2-BUTANONOXIM)SILAN - REACH registered number(s) 01-2119987100-43-0000

EINECS	CAS	CHIP Classification	CLP Classification	Percent
245-366-4	22984-54-9	Sens.: R43	Eye Irrit. 2: H319; Skin Sens. 1: H317; STOT RE 2: H373	1-2.5%

BUTAN-2-ON-O,O',O''-(VINYL-SILYLIDYN)TRIOXIM - REACH registered number(s): 01-2119982966-14-0000

218-747-8	2224-33-1	Sens.: R43; Xi: R41	Eye Dam. 1: H318; STOT RE 2: H373; Skin Sens. 1: H317	<1%
-----------	-----------	---------------------	---	-----

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENDIAMIN

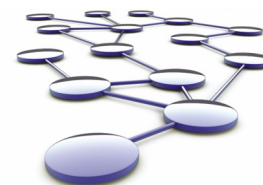
217-164-6	1760-24-3	Xn: R20; Xi: R41; Sens.: R43; N: R51/53	Acute Tox. 4: H332; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 2: H411; Skin Irrit. 2: H315	<1%
-----------	-----------	---	--	-----

Non-classified ingredients:

KOHLLENWASSERSTOFFE, C15-C20, N-ALKANE, ISOALKANE, CYCLOALKANE, < 0,03% AROMATEN

EINECS	CAS	CHIP Classification	CLP Classification	Percent
934-956-3	64742-46-7	Xn: R65	Asp. Tox. 1: H304	2.5-25%

- CONTINUED ON NEXT PAGE -



**ARC GLAZING &
CONSTRUCTION SILICONE**

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. In case of persisting irritation call in a physician. Where possible show the physician container or label.
- Eye contact: After separating the eyelids immediately flush eyes thoroughly with plenty of water. In case eye irritation persists, consult an oculist.
- Ingestion: Consult a doctor.
- Inhalation: Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

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

- Skin contact: There may be irritation and redness at the site of contact.
- Eye contact: There may be irritation and redness.
- Inhalation: Product releases 2-butanone during curing. After curing, product is odourless and indifferent.
- Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

- Immediate / special treatment: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

- Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Alcohol or polymer foam. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

- Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

- Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Closed containers near to the fire should be cooled with water (spray). Container may burst upon heating.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

- Environmental precautions: Do not discharge into drains or rivers.

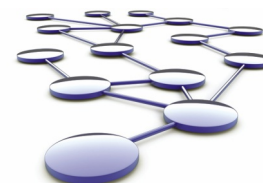
6.3. Methods and material for containment and cleaning up

- Clean-up procedures: Refer to section 13 of SDS for suitable method of disposal. Allow curing, the product can be disposed (category: commercial waste, municipal waste)

6.4. Reference to other sections

- Reference to other sections: Refer to section 8 of SDS.

- CONTINUED ON NEXT PAGE -



**ARC GLAZING &
CONSTRUCTION SILICONE**

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Do not eat, drink or smoke during application.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Avoid contact with water or humidity. Keep away from direct sunlight.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

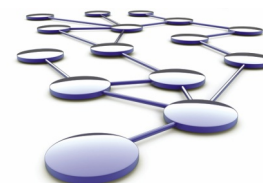
METHYLTRIS(2-BUTANONOXIM)SILAN

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1,02 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	0,145 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	0,25 mg/m ³	Population	Systemic
DNEL	Dermal (repeated dose)	0,073 mg/kg bw/day	Population	Systemic
DNEL	Oral (repeated dose)	0,072 mg/kg bw/day	Population	Systemic
PNEC	Fresh water	0,0185 mg/l	-	-
PNEC	Marine water	0,00185 mg/l	-	-
PNEC	Fresh water sediments	557,5 mg/kg	-	-
PNEC	Marine sediments	55,75 mg/kg	-	-
PNEC	Soil (agricultural)	65,6 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	3,9 mg/l	-	-
PNEC	Food chain	3,22 mg/kg	-	-

BUTAN-2-ON-O,O',O''-(VINYL-SILYLIDYN)TRIOXIM

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1,06 mg/m ³	Workers	Systemic

- CONTINUED ON NEXT PAGE -



ARC GLAZING & CONSTRUCTION SILICONE

DNEL	Dermal (repeated dose)	0,15 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	0,26 mg/m ³	Population	Systemic
DNEL	Oral (repeated dose)	0,075 mg/kg bw/day	Population	Systemic
DNEL	Dermal (repeated dose)	0,075 mg/kg bw/day	Population	Systemic
PNEC	Fresh water	0,01919 mg/l	-	-
PNEC	Marine water	0,001919 mg/l	-	-
PNEC	Fresh water sediments	1136,6 mg/kg	-	-
PNEC	Marine sediments	113,7 mg/kg	-	-
PNEC	Soil (agricultural)	133,8 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	4,06 mg/l	-	-
PNEC	Food chain	3,333 mg/kg	-	-

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	Respiratory protection not required.
Hand protection:	Butyl gloves. Nitrile gloves. PVC gloves. Breakthroughtime of the glove material > 1 hour.
Eye protection:	Safety glasses with side-shields.
Skin protection:	Protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State:	Paste	
Colour:	Various	
Odour:	Characteristic odour	
Evaporation rate:	No data available.	
Oxidising:	No data available.	
Solubility in water:	No data available.	
Viscosity:	Highly viscous	
Kinematic viscosity:	> 40	
Viscosity test method:	Kinematic viscosity in 10-6 m ² /s at 40°C (ISO 3219)	
Boiling point/range°C:	No data available.	Melting point/range°C: No data available.
Flammability limits %: lower:	No data available.	upper: No data available.
Flash point°C:	>93	Part.coeff. n-octanol/water: No data available.
Autoflammability°C:	No data available.	Vapour pressure: No data available.
Relative density:	ca. 1	pH: No data available.
VOC g/l:	< 30	

9.2. Other information

Other information: No data available.

SECTION 10: STABILITY AND REACTIVITY

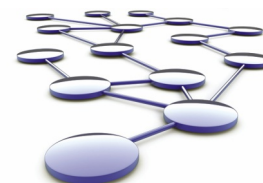
10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

- CONTINUED ON NEXT PAGE -



**ARC GLAZING &
CONSTRUCTION SILICONE**

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Humidity. Heat. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Water. Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide /carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. Silica.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Hazardous ingredients:

METHYLTRIS(2-BUTANONOXIM)SILAN

DERMAL	RAT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	2463	mg/kg

BUTAN-2-ON-O,O',O''-(VINYLSELYLIDYN)TRIOXIM

DERMAL	RAT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	> 2000	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Inhalation: Product releases 2-butanonime during curing. After curing, product is odourless and indifferent.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hazardous ingredients:

METHYLTRIS(2-BUTANONOXIM)SILAN

ALGAE	72H ErC50	18,5	mg/l
Daphnia magna	48H EC50	232	mg/l
FISCH	96H LC50	972	mg/l

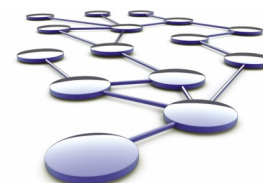
BUTAN-2-ON-O,O',O''-(VINYLSELYLIDYN)TRIOXIM

ALGAE	72H ErC50	19,2	mg/l
Daphnia magna	48H EC50	241	mg/l
FISCH	96H LC50	1011	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

- CONTINUED ON NEXT PAGE -



**ARC GLAZING &
CONSTRUCTION SILICONE**

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: Allow product to cure and dispose [landfilling - category: commercial wastes or municipal wastes].

Waste code number: 08 04 09, 09 04 99

Disposal of packaging: Empty (clean) container can be disposed off (category: commercial waste, municipal waste).

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN number: UN0000

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

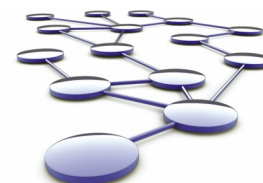
SECTION 15: REGULATORY INFORMATION

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

Specific regulations: Biocidal Products Regulation (EU 528/2012): "Contains abicide: Carbendazim."

15.2. Chemical Safety Assessment

- CONTINUED ON NEXT PAGE -



**ARC GLAZING &
CONSTRUCTION SILICONE**

SECTION 16: OTHER INFORMATION

Other information

- Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
- Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
EUH210: Safety data sheet available on request.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H411: Toxic to aquatic life with long lasting effects.
R20: Harmful by inhalation.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long -term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
- Legend to abbreviations: PNEC = predicted no effect level
DNEL = derived no effect level
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = physico-chemical properties
- Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.