NEW ZEALAND

Silicone Industrial Grade – All Colours

Safety Data Sheet

Identification of Substance & Company

Product

UN number

Product name Silicone Industrial Grade - All Colours Other names Atorn Industrial Grade Silicone

Product code 60SIAC

HSNO approval Surface Coatings and Colourants (Subsidiary Hazard) Group Standard

> 2017, HSR002670 Not assigned

Packaging group Not applicable NA

Hazchem code

Poison schedule Not applicable High performance, UV resistant, one component neutral cure silicone Uses

sealant. This product is a neutral oxime cure silicone sealant designed for sealing lap joints in metal guttering, aluminium roofing, flashings and down

pipes.

Company Details

EDL Fasteners LTD Company **Address** 70 Richard Pearse Drive

Mangere, Manukau New Zealand

Telephone +64 9 257 5536 Fax +64 9 257 5844 Website www.edlfast.co.nz

Emergency Telephone Number: 0800-764 766

2. Hazard Identification

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO), according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes

Hazard Statements

none **SYMBOLS**

none

Other Classifications

Upon contact with air or moisture and during curing this product gives off vapours which may cause serious damage to health by prolonged exposure through inhalation and if swallowed.

Precautionary Statements

none

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (% w/w)
Ingredients determined to be non hazardous	Proprietary	Up to 100%
By-product of curing: Methyl Ethyl Ketoxime	96-29-7	On contact with air or moisture: up to 3.7%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. **First Aid**

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

If medical advice is needed, have this SDS, product container or label at hand.



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Recommended first aid

facilities

Ready access to running water is required. Accessible eyewash is recommended.

Exposure

Swallowed IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Contact a doctor if you feel

unwell

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If irritation persists, call a POISON CENTER or

doctor/physician.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs get medical

advice/attention. Take off contaminated clothing and wash before re-use.

Inhaled IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/physician.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. Combustible material. It

can burn in a fire. Not applicable.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Product may decompose in a fire and produce toxic or corrosive fumes. Hazardous

decomposition products include carbon oxides, silicon dioxides and traces of

formaldehyde.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: NA

6. Accidental Release Measures

Containment There is no current legal requirement for secondary containment of this product. Prevent

product from entering environment.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of

hazard. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain spill. Prevent by whatever means

possible any spillage from entering drains, sewers, or water courses.

Clean-up method Collect product and seal in properly labelled containers or drums for disposal. If

contamination of crops, sewers or waterways has occurred advise local emergency

services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions Slippery when spilt.

Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapour. Work up wind or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep in a cool, dry

place. Avoid contact with incompatible substances as listed in Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour.

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8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient
Exposure Stds Methyl Ethyl Ketone – oxime

WES-TWA WES-STEL

3ppm 10ppm

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

EyesTo protect eyes, it is recommended that goggles, safety glasses or full face mask be

worn. Avoid wearing contact lenses.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves, e.g. nitrile rubber, NBR gloves. Remove protective clothing and wash exposed

handling.

Respiratory A respirator when airborne concentrations approach the WES (section 8) should be used.

If using a respirator, ensure that the cartridges are correct for the potential air

areas with soap and water prior to eating, drinking or smoking. Wash hands after

contamination and are in good working order.

WES Additional Information

No additional information

9. Physical & Chemical Properties

Appearance coloured or translucent non-flowing paste

Odour
pH
not available
Vapour pressure
viscosity
not determined
Poiling point
volatile materials
reezing / melting point
not available
not available

Solubility very low solubility in water (<1%)

Specific gravity / density

Flash point

Danger of explosion

Auto-ignition temperature
Upper and lower flammable

1.0 @20°C

non flammable

not explosive

non flammable

non flammable

limits

Corrosiveness non corrosive to metals

10. Stability & Reactivity

Stability This product is thermally stable when stored and used as directed.

formaldehyde.

Conditions to be avoided None known. Incompatible groups None known.

Hazardous decomposition Hazardous decomposition products include carbon oxides, silicon dioxides and traces of

products

Hazardous reactions None known.

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11. Toxicological Information

Summary

IF INHALED: Methyl Ethyl ketoxime is liberated during application and curing. Vapours may be irritant to respiratory tract and mucous membrane.

IF ON SKIN: repeated and prolonged exposure may lead to irritation. Methyl Ethyl ketoxime is a skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Cured sealant is not expected to be a skin irritant. IF IN EYES: direct contact may lead to eye irritation.

IF SWALLOWED: may cause nausea, vomiting and irritation of the gastrointestinal tract. Cured sealant is not expected to be harmful if swallowed.

Supporting Data

Acute Oral No data for mixture is available. Using LD₅₀'s for ingredients, the estimated LD₅₀ (oral,

rat) for the mixture is > 5,000 mg/kg. The by-product of curing Methyl ethyl ketoxime has

a LD₅₀ (oral, rat): 2300-3700mg/kg.

Dermal No data for mixture is available. Using LD_{50} 's for ingredients, the estimated LD_{50} (dermal,

rat) for the mixture is >5,000 mg/kg. The by-product of curing Methyl ethyl ketoxime has

a LD₅₀ (dermal, rat): >1000mg/kg.

No data for mixture is available. Inhalation may cause irritation to the mucous Inhaled

membranes and the respiratory tract. An aerosol mist of the silane/siloxane may cause lung damage if inhaled. Using LC50's for ingredients, the estimated LC50 (inhalation, rat) for the mixture is >5,000 ppm. The by-product of curing Methyl ethyl ketoxime has a LC₅0

(inhalation, rat): >4.8mg/L (4 hour).

Eye The uncured mixture is considered to be irritating to the eye, because some of the

ingredients (Alkyltris (oxime) silanes and 3-Aminopropyltriethoxysilane), present are considered corrosive to the eye at higher concentrations. The cured sealant is not

expected to cause irritation.

Skin The mixture is considered to be a skin irritant, because one of the ingredients (3-

Aminopropyltriethoxysilane) present is considered a skin corrosive at higher

concentrations. The cured sealant is not expected to cause irritation.

Chronic Sensitisation The uncured mixture is not considered to be a sensitizer, because none of the

ingredients present in greater than 0.1% are known to be sensitizers. However upon curing the by-product methyl ethyl ketoxime is relased and is considered to be a contact sensitiser. Repeated or prolonged contact with uncured product may lead to allergic

contact dermatitis in sensitive individuals.

Mutagenicity No data for mixture is available. No ingredient present at concentrations > 0.1% is

considered a mutagen.

No data for mixture is available. No ingredient present in the uncured mixture at Carcinogenicity

concentrations > 0.1% is considered a carcinogen. However upon curing the by-product

methyl ethyl ketoxime is suspected to be a carcinogen.

No data for mixture is available. No ingredient present at concentrations > 0.1% is Reproductive / Developmental considered a reproductive or developmental toxicant or have any effects on or via

The uncured mixture is not considered to be a target organ toxicant, because none of the Systemic

ingredients present in greater than 1% are suspected to be a target organ toxicant. However upon curing the by-product methyl ethyl ketoxime is suspected to be a target

organ toxicant and is classified by EPA as 6.9B (oral and by inhalation).

Aggravation of existing conditions None known.

12. Ecological Data

This material is not considered harmful or ecotoxic in the aquatic environment.

Supporting Data

No data for mixture is available. Using EC₅₀'s for ingredients, the estimated EC₅₀ for the Aquatic

mixture is > 100 mg/L.

Bioaccumulation No data. Degradability No data.

Soil No data available for the mixture.

Terrestrial vertebrate This product is not considered harmful to terrestrial vertebrates. No LC₅₀ (diet) data for

ingredients are available and the classification is based on the LD50 (oral) – see section

11 – oral toxicity.

Terrestrial invertebrate

The mixture is not considered harmful to terrestrial invertebrates.

Biocidal Not applicable

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13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method

Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should

be sought from the Regional Authority.

Contaminated packagingDisposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is renedered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number:Not assignedProper shipping name:Not applicableClass(es):Not applicablePacking group:Not applicablePrecautions:Not applicableHazchem code:1T (recommended)

15. Regulatory Information

This product is not considered hazardous under HSNO.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key requirements are:

SDS Not required (non hazardous), but best practice to have the SDS available.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Not required. Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required. Signage Not required. Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.



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16. Other Information

Abbreviations

FΡΔ

ACGIH American Conference of Governmental Industrial Hygienists

Approval Code Approval Construction Products (Subsidiary Hazard) Group Standard 2017 Controls,

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

EC₅₀ Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species) Environmental Protection Authority

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

PES Prescribed Exposure Standard means a WES or a biological exposure standard that is

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UEL Upper Explosive Limit
UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID). **EPA Notices** www.epa.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

Review

Date Reason for review

December 2009 Not applicable – new SDS

October 2015 update: ERMA to EPA, OSH to Worksafe NZ, update of section 11 and 12, review of

classification. Transport section.

March 2020 5 yearly update

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

