Vickers Laboratories Ltd - Safety Data Sheet

2476

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 2476

Product Name ORGANOFUNCTIONAL SILANE A-187

CAS Number 2530-83-8

REACH Registration No 01-2119513212-58-XXXX

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd

V I C K E R S

Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire

LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811

(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

Hazard to aquatic environment, category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Precautionary Statements

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. 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 reuse. Avoid release to the environment.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
gamma- Glycidoxypropyltrimeth	2530-83-8	219-784-2	01-2119513212-58-XXXX	>99%	Eye Dam. 1,Aquatic Chronic 3
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	<0.2%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 1

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Alcohol resistant foam, dry powder, or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear Advice for firefighters

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with Major Spillage

copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Protect against moisture to prevent decomposition and corrosion.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
gamma- Glycidoxypropyltrim eth	2530-83-8	>99%	-	-	-	-	
Methanol	67-56-1	<0.2%	200.0 ppm	266.0 mg/m-3	250.0 ppm	333.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Pale straw coloured liquid.
Odour Characteristic ester type odour.

pH Not applicable Boiling Point 260.4 °C Melting Point -97.8 °C

Flash Point 110°C (Closed cup)
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition 110°C (Closed cup)
Not applicable
Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0710

Water Solubility Reacts slowly with water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition Burning can produce carbon monoxide, dioxide and oxides of silicon.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Depending on exposure there may be mild to moderate conjunctivitis with possible corneal injury.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis.

LD50 Skin >4000 mg/Kg Rabbit

Ingestion will cause symptoms resembling those of alcoholic intoxication ie excitation and irritability. After a Ingestion

latent period of 10-15 hours more serious damage to the central nervous system especially to the optic nerve

occurs. Even if death does not occur permanent blindness may occur.

LD50 Oral >24000 mg/Kg Rat

Presents no significant health hazard by inhalation. Inhalation

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects No information is available.

Other Information The major health hazard is that on ingestion it decomposes to form methanol.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic organisms. Very toxic to fish. Marine pollutant- may cause long term adverse effects in the

aquatic environment.

LC50 Algal 288 mg/L Algae (96 hours)

LC50 Crustacea 266 mg/L (48 hours) LC50 Fish 45 mg/L Fish (96 hours)

12.2 Persistence and No data available. degradability

12.3 Bioaccumulative potential No data available. **12.4** Mobility in soil No data available.

Results of PBT & vPvB

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1 UN Number 3082

14.2 Proper Shipping Name Environmentally hazardous substance, liquid,

N.O.S. (Gamma-

Glycidoxypropyltrimethoxysilane)

14.3 Transport classes

UN classification 9
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 90
Tunnel Restriction Code E

Single packs and combination packages containing inner packs of up to 5L or 5Kg are excluded from regulation (ADR 2.2.9.1.10, IMDG code 2.10.3).

14.4 Packing Group II

14.5 Environment hazards Marine pollutant.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Serious eye damage/irritation, category 1; Hazard to aquatic environment, category 3

Signal word Danger

Hazard Pictograms



Hazard Statements H318, H412

Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Precautionary Statements P264, P280, P302+P352, P332+P313, P362, P273

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. 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 reuse. Avoid release to the environment.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 2.1 (Supercedes revision 2.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Vickers Laboratories Ltd - Safety Data Sheet

Ref: 2476

Page 5 of 6

Printed date: 12 August 2023

Copyright: 2023 Vickers Laboratories Ltd