

SAFETY DATA SHEETS

According to GB/T17519-2013 and Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – Seventh revised edition



Version: v3.00; Creation Date: Aug. 8, 2014; Revision Date: Jun. 20, 2023

1 Identification

1.1 GHS Product identifier

Product name: 2-[2-(Vinylloxy)ethoxy] ethyl acrylate

1.2 Other means of identification

Product number: M-203

Other names: -

1.3 Recommended use of the chemical and restrictions on use

Identified uses: For industry use only

Uses advised against: No data available

2 Hazards Identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2

Eye irritation, Category 2B

Specific target organ toxicity – single exposure, Category 3

Hazardous to the aquatic environment, long-term (Chronic) – Category Chronic 2

2.2 GHS label elements, including precautionary statements

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Pictogram(s):



Signal word: Warning

Hazard statement(s): H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s):

Prevention: P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only outdoors or in a well-ventilated area.

Response: P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P312 Call a POISON CENTER/doctor/...if you feel unwell.
P321 Specific treatment (see ... on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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Storage: None.

Disposal: P501 Dispose of contents/container to...in accordance with local regulation.

2.3 Other hazards which do not result in classification

None

3 Composition/Information on ingredients

3.1 Substances

Chemicals	CAS No.	Concentration
2-[2-(Vinylloxy)ethoxy] ethyl acrylate	86273-46-3	>95 wt%

4 First-aid measure

4.1 Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

5 Fire-fighting measure

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

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Exposure to decomposition products may cause a health hazard.
Thermal decomposition can lead to the evolution of irritant vapor or gases and/or fire.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8 Exposure control/personal protection

8.1 Control parameters

Occupational Exposure limit values

No data available

Biological limit values

No data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9 Physical and chemistry properties and safety characteristics

Physical state	Clear viscous liquid
Color	Water white or pale yellow
Odor	Ester-like
Melting point/ freezing point	No data available
Boiling point	No data available
Flammability	Ignitable on fire
Lower and upper explosion limit / flammability limit	No data available
Flash point	>100°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable
Viscosity	3 ~ 5 mPa·s at 25°C
Solubility	Soluble in organic solvents such as alcohol, esters, ethers, and aromatic solvents.
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Density and/or relative density	1.04 g/cm ³
Relative vapor density	No data available
Particle characteristics	Not applicable

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10 Stability and reactivity

10.1 Reactivity

May polymerize when keep at temperature higher than 80°C.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization can occur when exposed to direct sunlight

Hazardous exothermic polymerization can occur when heated

10.4 Conditions to avoid

Temperatures higher than 60°C, Localized heat sources (i.e. drum or band heaters), Direct sunlight, Oxidizing conditions, Freezing conditions, Strong ultraviolet radiation

10.5 Incompatible materials

Free radical producing initiators, Strong oxidizers, Reactive metals, Strong alkalis

10.6 Hazardous decomposition products

No data available

11 Toxicological information

11.1 Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

11.2 Skin corrosion/irritation

No data available

11.3 Serious eye damage/irritation

No data available

11.4 Respiratory or skin sensitization

No data available

11.5 Germ cell mutagenicity

No data available

11.6 Carcinogenicity

No data available

11.7 Reproductive toxicity

No data available

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11.8 STOT-single exposure

No data available

11.9 STOT-repeated exposure

No data available

11.10 Aspiration hazard

No data available

12 Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13 Disposal consideration

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14 Transport information

14.1 UN Number

ADR/RID: No data available

IMDG: No data available

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14.2 UN Proper Shipping Name

ADR/RID: No data available

IMDG: No data available

ITAT: No data available

14.3 Transport hazard class(es)

ADR/RID: No data available

IMDG: No data available

14.4 Packing group, if applicable

ADR/RID: No data available

IMDG: No data available

14.5 Environmental hazards

ADR/RID: No data available

IMDG: No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to IMO instruments

No data available

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
2-[2-(Vinylloxy)ethoxy] ethyl acrylate	VEEA	86273-46-3	451-690-9
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

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16 Other information

Information on revision:

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Abbreviation and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- (1) IPCS - The International Chemical Safety Cards (ICSC), website:
<http://www.ilo.org/dyn/icsc/showcard.home>
- (2) HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- (3) IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- (4) eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- (5) CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- (6) ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- (7) ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:
<http://www.phmsa.dot.gov/hazmat/library/erg>
- (8) Germany GESTIS-database on hazard substance, website:
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- (9) ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.
