SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 16 Revision date: 06/09/2017

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

1.1 Product identifiers

Product name: 2-Methoxyethyl Acetate

Product code: 52259

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

Identified uses: Reagents

1.3 Details of the supplier of the safety data sheet

Supplier: Company : Aaron Chemistry GmbH

: Am Fischweiher 41-43 : D-82481 Mittenwald

: Germany

: +49-8823-917521 Telephone: : +49-8823-917523 Fax: email: : info@aaron-chemistry.de

Emergency telephone number :+49-8823-917521

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

PHYSICAL HAZARDS Flammable liquids **HEALTH HAZARDS**

Serious eye damage/eye irritation

Reproductive toxicity Specific target organ toxicity

- Single exposure [Category 3]

ENVIRONMENTAL HAZARDS

Category 3

Category 2 Category 1B

Respiratory tract irritation

Not classified

2.2 Label elements

Pictograms or hazard symbols



Signal word Hazard statements

[Storage]







H226-Flammable liquid and vapour. H319-Causes serious eye irritation.

H360FD-May damage fertility. May damage the unborn child.

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H335-May cause respiratory irritation.

Precautionary statements

P202-Do not handle until all safety precautions have been read and understood. [Prevention]

P210-Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233-Keep container tightly closed.

P241+P242+P243-Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking

tools. Take precautionary measures against ignition by the static discharge and the spark.

P261-Avoid breathing dust/fume/gas/mist/vapours/spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves/eye protection/face protection.

[Response] P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

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.

P303+P361+P353-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P264-Wash hands thoroughly after handling.

P308+P313-IF exposed or concerned: Get medical advice/attention. P403+P233-Store in a well-ventilated place. Keep container tightly closed.

P405-Store locked up.

2-Methoxyethyl Acetate Page 1 of 5

SECTION 2: Hazards identification

[Disposal] P501-Dispose of contents/container through a waste management company authorized by the local

government

2.3 Other hazards

May form explosive peroxides.

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Components: 2-Methoxyethyl Acetate

 Percent:
 >98.0%(GC)

 CAS Number:
 110-49-6

 EC-No:
 203-772-9

Ethylene Glycol Monomethyl Ether Acetate, Acetic Acid 2-Methoxyethyl Ester, Methyl Cellosolve Acetate

, Methyl Glycol Acetate

Chemical Formula: C₅H₁₀O₃

SECTION 4: First aid measures

Synonyms:

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get

medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get

medical advice/attention.

Ingestion: Get medical advice/attention.Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness, Drowsiness, Headache, Abdominal pain, Nausea, Vomiting, Weakness, Unconsciousness, Dry skin, Redness

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon monoxide, Carbon dioxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled

around the leakage area by roping off, etc.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof

equipment.

6.4 Reference to other sections

For disposal see section 13.

2-Methoxyethyl Acetate Page 2 of 5

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.

7.2 Conditions for safe storage, including

any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away

from incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ACGIH TLV(TWA): 5 ppm (skin) **OSHA PEL(TWA):** 25 ppm (skin) JSOH OELs(TWA): 5 ppm (skin)

Install a closed system or local exhaust. Also install safety shower and eye bath. 8.2 Exposure controls

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear Colour: Colorless Odour: Ether-like No data available pH:

Melting point/freezing point: -65°C 143°C Boiling point/range: Flash point: 51°C

No data available Evaporation rate(Butyl Acetate=1): Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: 1.5% 12.3% Upper: Vapour pressure: 0.27kPa/20°C

Vapour density: 4 1 Relative density: 1.01

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Methanol, Acetone, Many organic solvents

Partition coefficient: n-

octanol/water:

Autoignition temperature: 380°C

Decomposition temperature: No data available **Dynamic Viscosity:** No data available No data available Kinematic viscosity:

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability May form explosive peroxides.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid Spark, Open flame, Static discharge, Air

10.5 Incompatible materials Oxidizing agents, Acids, Bases

2-Methoxyethyl Acetate Page 3 of 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: ihl-hmn TCLo:1000 mg/m³

ihl-rat LCLo:7000 ppm/4H orl-rat LD50:2900 mg/kg skn-rbt LD50:5250 uL/kg No data available

Skin corrosion/irritation:
Serious eye damage/irritation:
Respiratory or skin sensitization:
Germ cell mutagenicity:

No data available sln-dmg-orl 32000 ppm sln-smc 56600 ppm

eye-rbt 218 mg MLD

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: KL5950000

SECTION 12: Ecological information

12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability 95% (by BOD), 100% (by HPLC), 97% (by TOC)

12.3 Bioaccumulative potential 0.70

12.4 Mobility in soil

 Log Pow:
 0.121

 Soil adsorption (Koc):
 27

 Henry's Law
 3.1 x 10⁻²

constant(PaM3/mol):

12.5 Results of PBT and vPvB assessment

PBT: Not applicable Not applicable 12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

14.1 UN number 1189

14.2 UN proper shipping name

ADR/RID Ethylene glycol monomethyl ether acetate
IMDG/IMO Ethylene glycol monomethyl ether acetate
ICAO/IATA Ethylene glycol monomethyl ether acetate

14.3 Transport hazard class(es)

ADR/RID 3: Flammable liquid. IMDG/IMO 3: Flammable liquid. ICAO/IATA 3: Flammable liquid.

14.4 Packaging group

ADR/RID III
IMDG/IMO III
ICAO/IATA III

14.5 Environmental hazards

Marine pollutant -

2-Methoxyethyl Acetate Page 4 of 5

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

Water Hazard Classes (WGK) : Substance of Very High Concern (SVHC) according to the

Not listed

Class 1 - Low hazard to waters

REACH Regulations (EC) No.1907/2006

A chemical safety assessment has not been carried out.

SECTION 16: Other information

15.2 Chemical safety assessment

Prepared by: Aaron Chemistry GmbH

Issue date: 06/09/2017

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet