according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023

Date of print: 04.12.2023

Page: 1

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

1.1 Product identifier

Identification / trade name:	Art. 4136, MONIL-FROSTY
REACH registration number:	not notifiable
UFI:	U4NG-DWA8-HC0P-YQFG

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

Use of the substance / mixture: Cleaning agent

1.3 Details of the supplier of the safety data sheet

Supplier / Manufacturer:	HWR-CHEMIE GmbH Moosfeldstrasse 7 D-82275 Emmering
Telephone:	0049-8141-51030
Telefax:	0049-8141-510355
E-mail:	info@hwr-chemie.de
E-mail (competent person): Information contact: 1.4 Emergency phone	infoSDB@hwr-chemie.de Laboratory
Emergency phone Germany:	0049-8141-51030 (only during office hours)
Emergency phone Austria:	0043 1 406 43 43 (poison information centre)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 2, H225; Eye Irrit. 2, H319

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger.

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023



Date of print: 04.12.2023

Page: 2

Hazard statements

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye/face protection.
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.
P501 Dispose of contents/container at hazardous or special waste collection point.

2.3 Other hazards

The substances in this mixture do not meet the PBT/vPvB criteria of REACH, annex XIII. The substances in this mixture do not have any endocrine disrupting properties.

SECTION 3. Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterization

Mixture of surfactants, alcohols, dye and fragrances in water.

Hazardous ingredients

70 - 80 % Ethanol, EG 200-578-6, CAS 64-17-5, Flam. Liq. 2, H225;

- specific concentration limits: >= 50 % Eye Irrit. 2, H319
- 5 10 % 1-Methoxy-2-propanol, EG 203-539-1, CAS 107-98-2, Flam. Liq. 3, H226; STOT SE 3, H336

Additional information

Full text of hazard classes and H-phrases: see section 16

SECTION 4. First aid measures

4.1 Description of first aid measures

General informations:	In case of persistent symptoms seek medical advice. Remove contaminated clothing. In case of unconsciousness place patient into stable side position for transportation. Never give fluids or induce vomiting if patient is unconscious
	or is having convulsions.
In case of inhalation:	Provide affected person with fresh air and seek medical advice depending on the symptoms.
In case of skin contact:	Contaminated, soaked clothing should be immediately removed. Wash skin thoroughly with soap and water.
In case of eye contact:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
In case of ingestion:	Rinse mouth immediately and then drink plenty of water. Do not induce vomiting. Seek medical advice at once. In case of spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023

Date of print: 04.12.2023

Page: 3

4.2 Most important symptoms and effects, both acute and delayed

Dizziness, headache. Contact with eyes may cause reddening, running eyes and smarting pain. Ingestion may result in nausea and stomach pain. Skin contact may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no known specific antidote.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet / alcohol resistant foam / CO2 / dry extinguishing powder **Unsuitable extinguishing media:** Full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. In case of fire may be liberated: Carbon oxides

5.3 Advice for fire-fighters

Cool closed containers exposed to fire with water spray jet. Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. Wear protection equipment.

6.2 Environmental precautions

Large quantities of spills should be contained by. Do not allow to enter undiluted into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material and dispose of according to local regulations.

6.4 Reference to other sections

Observe protective measures in sections 8 and disposal considerations in section 13.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Wear protective clothing. Open carefully and keep container closed when not in use. Use only in well-ventilated areas or provide local extraction.

- General hygiene measures: - Eating, drinking or smoking is prohibited in areas, where work is performed.
- Wash your hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023



Date of print: 04.12.2023

Page: 4

Precautions against fire and explosion

Flammable vapour/air-mixtures may be formed. Ground/bond container and receiving equipment. Use only spark-/explosionproof appliances in danger zones. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool and well-ventilated place. Storage compatibility and limitations according to TRGS 510 must be observed.

7.3 Specific end uses

Observe product information sheet. eCl@ss (8.0): 30-02-16-17 / GISCODE: GU55

SECTION 8. Exposure controls / Personal protection

8.1 Control parameters

Workplace exposure limits according to TRGS 900

Substances: Ethanol Occupational exposure limit: 200 ppm, 380 mg/m³ Top limiting and exceedance factor: 4 (II) Notes: DFG, Y

Substances: 1-Methoxy-2-propanol Occupational exposure limit: 100 ppm, 370 mg/m³ Top limiting and exceedance factor: 2 (I) Notes: DFG, Y, EU

Biological limits according to TRGS 903

Substances: 1-Methoxy-2-propanol Parameters: 1-Methoxypropan-2-ol Biological limit value: 15 mg/l Test material and sampling time: U b

Community workplace exposure limits

Substances: 1-Methoxy-2-propanol EU limits (8h): 375 mg/m³, 100 ppm EU limits (Short-term): 568 mg/m³, 150 ppm Notes: Haut

8.2 Exposure controls / Personal protection equipment

Appropriate engineering controls

See section 7. No additional measures necessary.

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023



Date of print: 04.12.2023

Page: 5

Personal protection equipment

Respiratory protection:No personal respiratory protective equipment normally required.Hand protection:recommendedEye protection:use safety gogglesProtective clothing:usual work clothes

General health and safety measures

Respect good personal hygiene.

Environmental exposure controls

See section 6 and 7.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state:	liquid
Colour:	green
Odour:	alcoholic
pH value (undiluted):	approx. 3
pH value (1 %):	approx. 6
Melting point/Freezing point (°C):	approx70
Boiling temperature (°C):	approx. 80
Flashpoint (°C):	15
Flammability (solid, gas):	not applicable
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure (hPa):	not determined
Relative vapor density:	not determined
Density (20 °C):	approx. 0.84
Solubility:	completely mixable with water
Partition coefficient (KOW):	not determined
Ignition temperature:	not determined
Decomposition temperature:	not determined
Dynamic viscosity (mPas):	< 10
Particle properties:	not applicable

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023



Date of print: 04.12.2023

Page: 6

9.2 Other information

Other safety characteristics

No other physical and chemical data has been recorded.

SECTION 10. Stability and Reactivity

10.1 Reactivity

May heat up during dilution.

10.2 Chemical stability

Stable under the specified storage conditions.

10.3 Possibility of hazardous reactions

There are expected no hazardous reactions for intended use.

10.4 Conditions to avoid

Avoid heat, direct sunlight, electrostatic discharges and sparks. Note the information about handling and storage in section 7.

10.5 Incompatible materials

Different plastics can be attacked.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

The mixture does not meet the criteria for classification.

Skin Corrosion / Irritation

Mixture does not contain any substances with skin irritation / corrosion.

Serious Eye Damage / Irritation

Mixture is classified as irritating to the eyes.

Sensitisation

Mixture does not contain any sensitising substances.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Mixture does not contain any substances which are classified as carcinogenic, mutagenic or toxic for reproduction.

Specific target organ toxicity (single exposure)

Mixture is not classified as specific target organ toxic (single exposure).

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023

Date of print: 04.12.2023

Page: 7

Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity (repeated exposure).

Aspiration hazard

Not classified. Mixture does not contain any hydrocarbons.

11.2 Information on other hazards

Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

Other information

No further data available.

SECTION 12. Ecological information

The available data refer to the substances in the mixture. The mixture as a whole has not been tested.

12.1 Toxicity

This mixture does not contain any substances classified as dangerous for the environment.

12.2 Persistence and degradability

Ethanol Readily biodegradable (97%, OECD 301B)

1-Methoxy-2-propanol

Fast photochemical oxidation in the air. Readily biodegradable (90-100%, OECD 301E).

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential

Ethanol Not expected to bioaccumulate.

1-Methoxy-2-propanol Not expected to bioaccumulate.

12.4 Mobility in soil

Ethanol Absorption to solid soil phase is not expected. Substance is highly volatile.

1-Methoxy-2-propanol No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances which are identified as PBT or vPvB.

12.6 Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

12.7 Other adverse effects

The mixture does not contain any substances which are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023



Date of print: 04.12.2023

Page: 8

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Recommendation

Cleaning concentrates should not be disposed of via wastewater. Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations.

Waste codes/waste designations according to EWC

20 01 29 (detergents containing hazardous substances)

Packaging

Contaminated package

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations. Waste code 15 01 10 (packaging containing residues of or contaminated by hazardous substances)

Cleaned package

Non contaminated and clean packagings can be used for recycling.

SECTION 14. Transport information

14.1 UN number or ID number

1170

14.2 UN Proper shipping name:

ADR / RID: Ethanol solution

IMDG-Code / ICAO-TI / IATA-DGR: Ethanol solution

14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:

3

14.4 Packing group

14.5 Environmental hazards Not classified.

14.6 Special precautions for user

See section 6 and 8.

14.7 Maritime transport in bulk according to IMO instruments not applicable

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023





Date of print: 04.12.2023

Page: 9

SECTION 15. Regulatory information

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

EU regulations

Subject to the Regulation (EC) No. 648/2004 on detergents.

National regulations

Maternity Protection Act (MuSchG): not applicable. Major Accidents Ordinance (12. BImSchV): not applicable. Observe employment restrictions for young people (§ 22 JArbSchG). Water hazard class: WGK 1 (in accordance with German regulation AwSV)

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16. Other information

Indication of changes

Revised sections: 1, 15

Hazard statements referred to in Section 2 and 3 i.a.w. Regulation (EC) No 1272/2008

Flam. Liq 2, H225 = Flammable liquids, category 2, Highly flammable liquid and vapour. Flam. Liq 3, H226 = Flammable liquids, category 3, Flammable liquid and vapour. Eye Irrit. 2, H319 = Eye damage / irritation, category 2, Causes serious eye irritation. STOT SE 3, H336 = Specific target organ toxicity (single exposure), category 3, May cause drowsiness or dizziness.

Key literature references and sources for data

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008

All data were taken from the safety data sheets of our sub-suppliers, where available. Missing data were taken from the Substance Database GESTIS of the Institute for Occupational Safety and Health of the German statutory accident insurance or from the database of the European Chemicals Agency (ECHA).

according to Regulation (EC) No 1907/2006 (REACH)

Art. 4136, MONIL-FROSTY

Version: 12

Revision date: 04.12.2023

Legend ABEK Filter designation ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ATE mix Acute Toxicity Estimates for mixtures AVV European waste list regulation AwSV Ordinance on systems for handling water-polluting substances Butyl Butyl rubber CAŚ (Registration number) Chemical Abstracts Service CLP Regulation on classification, labelling and packaging of substances and mixtures CMR Carcinogenicity, mutagenicity, reproductive toxicity CR Chloroprene rubber **EC50** Median effective concentration (Registration number) European Union EG ErC50 Median effective concentration FIFRA Federal Insecticide, Fungicide and Rodenticide Act FKM Fluorocarbon rubber GISCODE Labelling system of the professional associations in the construction industry IATA-DGR International Air Transport Association - Dangerous Goods Regulations IBC International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICAO-TI Technical Instructions For The Safe Transport of Dangerous Goods by Air IMDG International Maritime Dangerous Goods Lethal concentration of a substance leading to the death of 50% of the exposed organisms LC50 LD50 Lethal dose of a substance that leads to death of 50% of the organisms exposed to it MARPOL International Convention for the Prevention of Pollution from Ships NBR Acrylonitrile butadiene rubber NOEC No Observed Effect Concentration No Observed Effect Level NOEL Natural rubber NR OECD Organisation for Economic Co-operation and Development Persistent, bioaccumulating, toxic PBT PET Polvethylene terephthalate PTFE Polytetrafluoroethylene Polyvinyl chloride PVC REACH Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals Convention concerning International Carriage by Rail RID Technical Rules for Hazardous Substances TRGS **United Nations** UN US-EPA United States Environmental Protection Agency VOC Volatile Organic Compounds

vPvB Very persistent, very bioaccumulating

WGK Water hazard class

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.



Date of print: 04.12.2023

Page: 10