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| | according | to UK REACH Regulation |
|--|---|--------------------------------------|
| | | MIBI |
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| SECTION 1: Identificatio | n of the substance/mixture | and of the company/undertaking |
| 1.1. Product identifier | | |
| MIBI | | |
| Further trade names Propane, 1-isocyano- | -2-methoxy-2-methyl- | |
| Synonyms: 2-Methoxyisobutyl iso CAS No: | onitrile; 2-Methoxyisobutyl isocya 109434-22-2 | anide |
| 1.2. Relevant identified use | es of the substance or mixture | and uses advised against |
| Use of the substance/m Ligand for labelling w | | |
| 1.3. Details of the supplier | | |
| Company name: | | chemical compounds |
| Street: | Heinrich-Gläser-Str | rschungsreagenzien GmbH aße 10-14 |
| Place: | 01454 Radeberg | |
| Telephone: | +49 3528 4041 60 | Telefax: +49 3528 4041 65 |
| e-mail: | info@abx.de | |
| Contact person: | Dr. Christoph Meye | r Telephone: +49 3528 4041 8732 |
| e-mail: | meyer@abx.de | |
| Internet: | http://www.abx.de | |
| 1.4. Emergency telephone | +49 3528 4041 60 | |
| <u>number:</u> | | |
| SECTION 2: Hazards ide | ntification | |
| 2.1. Classification of the su | <u>ibstance or mixture</u> | |
| GB CLP Regulation | | |
| Flam. Liq. 3; H226 | | |
| Acute Tox. 3; H331 | | |
| Acute Tox. 3; H311 | | |
| Acute Tox. 3; H301 | | |
| Full text of hazard sta | atements: see SECTION 16. | |
| 2.2. Label elements | | |
| GB CLP Regulation | | |
| Hazard components for MIBI | labelling | |
| Signal word: | Danger | |
| Pictograms: | | |

Pictograms:



Hazard statements

H226 H301+H311+H331 Flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled.

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|---------------------------|--------------------|-------------|
| | | |

Precautionary statements

| P202 | Do not handle until all safety precautions have been read and understood. |
|-----------|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing |
| | protection. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P270 | Do not eat, drink or smoke when using this product. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P233 | Keep container tightly closed. |
| P273 | Avoid release to the environment. |

2.3. Other hazards

Warning - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.1. Substances

| Chemical ch | aracterization |
|-------------|--------------------|
| Dronana | 1 isogyana 2 motho |

| Propane, 1-isocyano-2-meth | oxy-2-methyl- |
|----------------------------|---------------|
| Sum formula: | C6H11NO |
| Molecular weight: | 113.16 |

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|--------------------------------------|------------------------------------|----------|--------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 109434-22-2 | MIBI | | | 95 - < 100 % |
| | Flam. Liq. 3, Acute Tox. 3, Acute To | ox. 3, Acute Tox. 3; H226 H331 H31 | 1 H301 | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|------------------|---|--------------|
| | Specific Conc. L | imits, M-factors and ATE | |
| 109434-22-2 | | МІВІ | 95 - < 100 % |
| | | = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = : ATE = 100 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing. Call a physician immediately.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth thoroughly with water. Call a physician in any case! Medical examination necessary even merely on suspicion of intoxication.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Atomized water. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Storage of °C: -25 up to °C: -15 Protect against: Light. Store under (Gas): argon. Nitrogen.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

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| Hand protection Single-use gloves. (NBR (Nitrile | rubber).) | |
| Skin protection Lab apron. Chemical resistant safe Respiratory protection | ty shoes. Immediately remove any wetted clothing, shoes or stockings. | |
| If handled uncovered, arrangemen gas/fumes/vapour/spray. | ts with local exhaust ventilation have to be used. Do not breathe | |
| SECTION 9: Physical and chemical | properties | |
| 9.1. Information on basic physical and c | hemical properties | |
| Physical state: | liquid | |
| Colour: | colourless, light brown | |
| Odour: | pungent, sharp | |
| Changes in the physical state | | |
| Flash point: | > 23 °C | |
| Water solubility: | practically insoluble | |
| Solubility in other solvents Methanol. Chloroform. dimethylsul | phoxide (DMSO). | |
| SECTION 10: Stability and reactivity | | |
| 10.4. Conditions to avoid | | |

Light.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Acute toxicity, inhalant.

| CAS No | Chemical name | | | | | |
|-------------|----------------------|--------------|----------|---------|--------|--------|
| | Exposure route | Dose | | Species | Source | Method |
| 109434-22-2 | MIBI | | | | | |
| | oral | ATE mg/kg | 100 | | | |
| | dermal | ATE mg/kg | 300 | | | |
| | inhalation vapour | ATE | 3 mg/l | | | |
| | inhalation dust/mist | ATE | 0,5 mg/l | | | |

11.2. Information on other hazards

Other information

Data obtained by analogy conclusion, e.g. QSAR.

SECTION 12: Ecological information

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

| Land transport (ADR/RID) | |
|-----------------------------------|---|
| 14.1. UN number or ID number: | UN 2929 |
| 14.2. UN proper shipping name: | Toxic liquid, flammable, organic, n.o.s. (2-Methoxyisobutyl isonitrile) |
| 14.3. Transport hazard class(es): | 6.1 (3) |
| 14.4. Packing group: | ll |
| Hazard label: | 6.1 (3) |
| Inland waterways transport (ADN) | |
| 14.1. UN number or ID number: | UN 2929 |
| 14.2. UN proper shipping name: | Toxic liquid, flammable, organic, n.o.s. (2-Methoxyisobutyl isonitrile) |
| 14.3. Transport hazard class(es): | 6.1 (3) |
| 14.4. Packing group: | ll |
| Hazard label: | 6.1 (3) |
| Marine transport (IMDG) | |
| 14.1. UN number or ID number: | UN 2929 |
| 14.2. UN proper shipping name: | Toxic liquid, flammable, organic, n.o.s. (2-Methoxyisobutyl isonitrile) |
| 14.3. Transport hazard class(es): | 6.1 (3) |
| 14.4. Packing group: | ll |
| Hazard label: | 6.1 (3) |
| Air transport (ICAO-TI/IATA-DGR) | |
| 14.1. UN number or ID number: | UN 2929 |
| 14.2. UN proper shipping name: | Toxic liquid, flammable, organic, n.o.s. (2-Methoxyisobutyl isonitrile) |
| 14.3. Transport hazard class(es): | 6.1 (3) |
| 14.4. Packing group: | ll |
| Hazard label: | 6.1 (3) |
| | |

SECTION 15: Regulatory information

according to UK REACH Regulation

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| 15.1. Safety, health and environmental re | gulations/legislation specific for the substance or mixtu | <u>ire</u> |
| EU regulatory information Restrictions on use (REACH, annex XV | (II): | |

National regulatory information

Water hazard class (D):

3 - highly hazardous to water

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

| Flammable liquid and vapour. |
|---|
| Toxic if swallowed. |
| Toxic if swallowed, in contact with skin or if inhaled. |
| Toxic in contact with skin. |
| Toxic if inhaled. |
| |