

Innotech Reiniger 220

Revision date: 12.09.2018

Page 1 of 9

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

1.1. Product identifier

Innotech Reiniger 220

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

Use of the substance/mixture

Preparatory and cleaning products

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-------------------------|-------------------------------|
| Company name: | innotech-Vertriebs GmbH | |
| Street: | Junkerstrasse 16 | |
| Place: | D-93055 Regensburg | |
| Telephone: | +49 (0) 941 70 08 78 | Telefax: +49 (0) 941 70 46 60 |
| e-mail: | info@innotech-r.de | |
| Contact person: | Mr. Massen | |
| Internet: | www.innotech-r.de | |
| Responsible Department: | sales department | |

1.4. Emergency telephone number: +49 (0) 941 70 08 78
Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
 Flammable liquid: Flam. Liq. 3
 Specific target organ toxicity - single exposure: STOT SE 3
 Aspiration hazard: Asp. Tox. 1
 Hazardous to the aquatic environment: Aquatic Chronic 3
 Hazard Statements:
 Flammable liquid and vapour.
 May cause drowsiness or dizziness.
 May be fatal if swallowed and enters airways.
 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |

according to Regulation (EC) No 1907/2006

Innotech Reiniger 220

Revision date: 12.09.2018

Page 2 of 9

P370+P378 In case of fire: Use Water mist, Foam, Dry extinguishing powder, Carbon dioxide to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|--------|---|----------|-------------------|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | 100 % |
| | 927-241-2 | | 01-2119471843-32- | |
| | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412 EUH066 | | | |

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

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

SECTION 4: First aid measures

4.1. Description of first aid measures**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Subsequent observance for pneumonia and lung oedema.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

Treat symptomatically.

SECTION 5: Firefighting measures

Innotech Reiniger 220

Revision date: 12.09.2018

Page 3 of 9

5.1. Extinguishing media**Suitable extinguishing media**Carbon dioxide (CO₂), Foam, Extinguishing powder.**Unsuitable extinguishing media**

Water. Full water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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 protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Preparatory and cleaning products

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Innotech Reiniger 220

Revision date: 12.09.2018

Page 4 of 9

DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|---|----------|-----------------------|
| DNEL type | Exposure route | Effect | Value |
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
| Consumer DNEL, long-term | oral | systemic | 46 mg/kg bw/day |
| Worker DNEL, long-term | dermal | systemic | 77 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 871 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 46 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 185 mg/m ³ |

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection. Suitable eye protection: Eye glasses with side protection DIN EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
 Recommended material: FKM (fluoro rubber), NBR (Nitrile rubber) EN ISO 374
 Thickness of the glove material: >= 0,4 mm
 Permeation time (maximum wear time): >480 min
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: Combination filtering device (EN 14387) A-P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
 Colour: colourless
 Odour: like: Solvent

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: -20 °C
 Initial boiling point and boiling range: 139 - 164 °C EN ISO 3405
 Flash point: 28 °C DIN EN ISO 13736

Innotech Reiniger 220

Revision date: 12.09.2018

Page 5 of 9

Flammability

Solid: not applicable
 Gas: not applicable

Explosive properties

In use may form flammable/explosive vapour-air mixture.

Lower explosion limits: 0,6 vol. %
 Upper explosion limits: 7 vol. %

Auto-ignition temperature

Solid: not applicable
 Gas: > 200 °C

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: 5 hPa DIN 51754
(at 20 °C)Density (at 15 °C): 0,756 g/cm³ DIN 51757

Water solubility: The study does not need to be conducted
 (at 20 °C) because the substance is known to be
 insoluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / kinematic: 1,1 mm²/s DIN 51562
(at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Innotech Reiniger 220

Revision date: 12.09.2018

Page 6 of 9

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|--------|---|--------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 > 15000 mg/kg | Rat | Study report (1977) | OECD Guideline 423 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | Study report (1993) | OECD Guideline 402 |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional information on tests

Special hazards arising from the substance or mixture. Classification according to Regulation (EC) No 1272/2008 [CLP]: health hazard properties.

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No | Chemical name | | | | | |
|--------|---|-----------------------|-----------|-------------------------------------|-----------------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | | |
| | Acute fish toxicity | LC50 > 10 - < 30 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 | |
| | Acute algae toxicity | ErC50 > 1000 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD 201 | |
| | Acute crustacea toxicity | EC50 > 22 - < 46 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |
| | Fish toxicity | NOEC 0,182 mg/l | 28 d | Oncorhynchus mykiss | CONCAWE, Brussels, Belgium (2010) | The aquatic toxicity was estimated by a |
| | Crustacea toxicity | NOEC 0,317 mg/l | 21 d | Daphnia magna | Company report (2010) | The aquatic toxicity was estimated by a |

12.2. Persistence and degradability

The product has not been tested.

Innotech Reiniger 220

Revision date: 12.09.2018

Page 7 of 9

| CAS No | Chemical name | | | |
|--------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| | Biodegradation | >70 % | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

The product has not been tested.

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------|---|-------|------------|----------------------|
| | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | 144,3 | calculated | Other company data (|

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** UN 1993
- 14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.
- 14.3. Transport hazard class(es):** 3
- 14.4. Packing group:** III
- Hazard label: 3



- Classification code: F1
- Special Provisions: 274 601
- Limited quantity: 5 L
- Excepted quantity: E1
- Transport category: 3
- Hazard No: 30
- Tunnel restriction code: D/E

Innotech Reiniger 220

Revision date: 12.09.2018

Page 8 of 9

Inland waterways transport (ADN)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 274 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: 223, 274, 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquid.

Innotech Reiniger 220

Revision date: 12.09.2018

Page 9 of 9

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information

| | |
|---|--|
| 2010/75/EU (VOC): | 100 % (756 g/l) |
| 2004/42/EC (VOC): | 100 % (756 g/l) |
| Subcategory according to Directive 2004/42/EC: | Preparatory and cleaning - Preparatory, VOC limit value: 850 g/l |
| Information according to 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation).

National regulatory information

| | |
|--------------------------|---|
| Employment restrictions: | Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 1 - slightly hazardous to water |

15.2. Chemical safety assessment

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

SECTION 16: Other information
Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,11,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.