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|---|---|--|---------|-----------------------------------|-----------------|---------|--|
| <p>1. Section 1. Identification of the substance/mixture and of the company/undertaking:</p> <p>1.1. Product identifier : HAND PROTECT- R 02.0064</p> <p>1.2. Relevant identified uses of the substance or mixture: Protective hand foam</p> <p>1.3. Details of the supplier of the safety data sheet Identification of manufacturer/Supplier: RETECH, s.r.o. Vackova 1541/4 150 00 Praha-5 Stodůlky Telephone/Fax: +420 327 596 128, +420 327 596 428 Information: info@retech.cz</p> <p>1.4. Emergency telephone number: RETECH Suchdol 212, Suchdol u Kutné Hory Tel.+420 327 596 128 (7.30-16.00 hour) Toxicology information number, Na bojišti 1, 128 08 PRAHA 2 Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)</p> | <p>2. Section 2. Hazard identification:</p> <p>The product is labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version. The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.</p> <p>2.1. Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.</p> <p>Classification according to Directive 67/548/EEC or Directive 1999/45/EC: The product is not classified according to Directive 1999/45/EC.</p> <p>2.2. Label elements: Labelling according to Regulation (EC) No 1272/2008: No labelling.</p> <p>Labelling according to Directive 1999/45/EC: No labelling.</p> <p>2.3. Special labeling of certain preparations: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep out of reach of children. 4.0 % by mass of the contents are flammable.</p> <p>2.3. Other hazards: Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable Buildup of explosive mixtures possible without sufficient ventilation.</p> | | | | | | |
| <p>3. Section 3. Composition/Data on components:</p> <p>3.2. Mixtures: Description: The active ingredient in propellants</p> <p>Dangerous components:</p> <table border="1"> <tr> <td>CAS: 106-97-8 EINECS: 203-448-7</td> <td>Butane (containing<0,1% butadiene (203-450-8)) F+ R12 GHS02 Flam.Gas1, H220; GHS04 Press.Gas, H280</td> <td>2,5-<10</td> </tr> <tr> <td>CAS: 57-55-6 EINECS: 200-338-6</td> <td>Propan-1,2 diol</td> <td>2,5-<10</td> </tr> </table> | CAS: 106-97-8 EINECS: 203-448-7 | Butane (containing<0,1% butadiene (203-450-8)) F+ R12 GHS02 Flam.Gas1, H220; GHS04 Press.Gas, H280 | 2,5-<10 | CAS: 57-55-6 EINECS: 200-338-6 | Propan-1,2 diol | 2,5-<10 | |
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Additional information: For the wording of the listed risk phrases refer to section 16.
Ingredients according to detergents guideline 648/2004/EC: < 5% aliphatic hydrocarbons, non-ionic surfactants, BENZYL BENZOATE, Hexyl Cinnamal, GERANIOL, Lavandin oil Grosso

4. Section 4. First aid measures:

- 4.1 Description of first aid measures:
 After inhalation: Supply fresh air; consult doctor in case of symptoms.
 After skin contact: The product is not irritating.
 After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
 After swallowing: Rinse mouth; Do not induce vomiting; Consult a physician.
 Most important symptoms and effects, both acute and delayed: No further relevant information available.
 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Section 5. Fire fighting measures:

- 5.1. Extinguishing media:
 Suitable extinguishing agents: CO₂, extinguishing powder or alcohol resistant foam.
 For safety reasons unsuitable extinguishing agents: Water jet.
 5.2. Special hazards arising from the substance or mixture:
 Relevant information available.
 5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.
 Aerosols may explode when overheated. Cool the container with water.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
 Wear protective equipment. Keep unprotected person away.
 6.2. Environmental precautions:
 Do not allow to enter drainage system, surface or ground water.
 6.3. Methods and material for containment and cleaning up:
 Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 6.4. Reference to other sections:
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment
 See Section 13 for disposal information.

7. Section 7. Handling and storage:

- 7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
 Information about protection against explosions and fires: Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
 7.2. Conditions for safe handling, including any incompatibilities:
 Requirements to be met by storerooms and containers: Store in cool location. Observe official regulations on storing packaging with pressurized containers.
 Information about storage in one common storage facility: Observe official regulations on storing packaging with pressurized containers.
 Further information about storage conditions: Protect from heat and direct sunlight.
 7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls and personal protection:

- 8.1. Control parameters:
 Components with limit values that require monitoring at the workplace:
 106-97-8 butane

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WEL Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm

57-55-6 propane-1,2-diol

WEL Long-term value: 474* 10** mg/m³, 150* ppm
*total vapour and particulates **particulates

Additional information: The lists that were valid during the compilation were as basis.

- 8.2. Exposure controls:
- | | |
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| Breathing equipment: | Not required, but ensure adequate ventilation when using the product. |
| Protection of hands: | Not required. |
| Eye protection: | Not required, when used as directed. |
| Protection of skin: | Not required. |
- 8.3. General protective and hygienic measures: Wash hands during breaks ant at the end of the work.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Appearance:

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|---|----------------------------------|
| form: | Aerosol |
| colour: | Colourless |
| Odour threshold: | Characteristic |
| Value pH: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point/boiling range: | 100°C |
| Flash point: | >55°C |
| Evaporation rate: | Not applicable |
| Flammability (solid,gas): | Not applicable |
| Explosive properties: | Product is not explosive. |
| Upper/lower flammability or explosive limits: | |
| Explosion limits: lower (% Vol): | Not determined |
| upper (% Vol): | Not determined |
| Vapour pressure (at 20°C): | 3.0 Bar |
| Vapour density (at 20 °C): | Not determined |
| Relative density: | 0,967 g/cm ³ |
| Solubility in/miscibility with | |
| - water | Not miscible or difficult to mix |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Oxidative properties: | Not determined |

9.2. Other information:

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|-------------------|-----------|
| Organic solvents: | 8.8 % |
| Water: | 82.9 % |
| Solids content: | 6.7% |
| VOC: | 428.6 g/l |

10. Section 10. Stability and reactivity:

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| 10.1. Reactivity: | No further relevant information available. |
| 10.2. Chemical stability: | No further relevant information available. |
| 10.3. Possibility of hazardous reactions: | No dangerous reactions known. |
| 10.4. Conditions to avoid: | No further relevant information available. |
| 10.5. Incompatible materials: | No further relevant information available. |
| 10.6. Hazardous products of decomposition: | No dangerous decomposition products known. |

11. Section 11. Toxicological information:

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11.1 Information on toxicological effects:

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| Acute toxicity: | Not. |
| Irritation: on the skin: | No irritant effect. |
| on the eye: | No irritating effect. |
| Corrosivity: | Not corrosive. |
| Sensitization: | No sensitizing effect known. |
| Repeated dose toxicity: | No further relevant information available. |
| Carcinogenicity: | No further relevant information available. |
| Mutagenicity: | No further relevant information available. |
| Toxicity for reproduction: | No further relevant information available. |
| Other information: | No data. |

12. Section 12. Ecological information:

Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- 12.1. Toxicity: No further relevant information available.
- 12.2. Persistence and degradability: No further relevant information available.
- 12.3. Bioaccumulative potential: No further relevant information available.
- 12.4. Mobility in soil: No further relevant information available.
- 12.5. Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

- 13.1. Waste treatment methods:
Product: Smaller quantities can be disposed of with household waste.
Disposal must be made according to official regulations.
Uncleaned packagings: Disposal must be made according to official regulations.

14. Section 14. Transport information:

- 14.1. Land transport:
ADR/RID-GGVS/E class: 2 5F Gases
Number UN: 1950
Description of goods: Aerosols
Remarks: "Limited quantities" LQ2
Transport category: 2
Tunnel restriction code: D
- 14.2. Maritime transport:
IMDG-class: 2.1
Page: -
Number UN: 1950
Packaging group: -
EMS-group: F-D,S-U
Marine pollutant: No
Proper shipping name: Aerosols
- 14.3. Air transport:
ICAO / IATA -class: 2.1
UN/ID number: 1950
Packaging group: -
Proper shipping name: Aerosols
UN "Model Regulation": UN1950, AEROSOLS, 2.1
Special precautions for users: Warning: Gases
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. Section 15. Regulatory information:

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- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
Labelling according to law line:
The product has been labeled in accordance with EC Directives / relevant national laws.
Danger of determining components and mark to labelling:
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn.
4.0 % by mass of the contents are flammable.
Discard empty packaging in separated waste.
- Labelling hazardousness: Not
- Numbers and word reading associated hazard R-sentences : Not
- Numbers and word reading associated security S-sentences:
S 2 Keep out of reach of children..
S 23 Do not breathe gas.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 51 Use only in well-ventilated areas.
- Regulation (EC) No 648/2004 Contains: < 5% aliphatic hydrocarbons, non-ionic surfactants, BENZYL BENZOATE, Hexyl Cinnamal, GERANIOL, Lavandin oil Grosso
- Used legislation:
European Regulation (EC) No 1907/2006 – REACH.
Commission Regulation (EU) No 453/2010.
European Regulation No 67/548EEC and 1999/45/EC.
Commission Regulation (EC) No 1272/2006 – CLP.
Commission Regulation (EC) No 790/2009.
Regulation (EC) No 648/2004 (detergents).
- 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R+Hphrases:

R12 Extremely flammable.
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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WEL- Workplace exposure limits
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
***Compared to the last version the data has been changed.**