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|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 1/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

1. * Section 1. Identification of the substance/mixture and of the company/undertaking:

1.1. Product identifier:

Trade name: **HAND PROTECT**
Product code: **R 02.0064**

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

Uses of the mixture: Hand protective foam
Sector of use category (SU):
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category:
PROC7 Industrial spraying
PROC11 Non industrial spraying
Uses advised against: Not known.

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 number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz

1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)**2. * Section 2. Hazard identification:**

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]:
Flam. Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Danger

Hazard Statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary Statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with national regulation.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 2/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

- 2.3. Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. * Section 3. Composition/information on ingredients:

- 3.2. Mixtures:
Description of the mixture: Mixture of active ingredients with propellants

Hazardous ingredients:

| | | |
|---------------------------|-------------------------------------|-----------|
| CAS: 106-97-8 | Butane (contains <0.1 % butadiene) | 3 -< 10 % |
| EINECS: 203-448-7 | Flam. Gas 1, H220; Press. Gas, H280 | |
| Reg.nr.: 01-2119474691-32 | | |

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

- 4.1. Description of first aid measures:
General notes: When in doubt or if symptoms are observed, get medical advice.
After inhalation: Move affected person to fresh air.
Get medical attention if any discomfort continues.
After skin contact: Generally the product does not irritate the skin.
After eye contact: Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical attention if any discomfort continues.
After swallowing: Do not induce vomiting.
Immediately call a doctor.
- 4.2. Most important symptoms and effects, both acute and delayed:
No further relevant information available.
- 4.3. 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: Carbon dioxide (CO₂), extinguishing powder, water spray, alcohol resistant foam.
Unsuitable extinguishing agents: Water with full jet.
- 5.2. Special hazards arising from the substance or mixture:
No further relevant information available.
- 5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

6. Section 6. Accidental release measures:

- 6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment, see Section 8.
Keep unprotected persons away.
Ensure adequate ventilation.
- 6.2. Environmental precautions: Do not allow to enter sewage system, surface or ground water.
- 6.3. Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Dispose contaminated material as waste according to Section 13.
- 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.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 3/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

7. Section 7. Handling and storage:

7.1. Precautions for safe handling:

Protective measures: Wear protective equipment, see Section 8.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Measures to prevent fire: Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:
Store in cool, dry conditions in well sealed receptacles.
Observe official regulations on storing packagings with pressurized containers.

Technical measures and storage conditions:
Store in a cool place.
Observe official regulations on storing packagings with pressurized containers.

Further information on storage conditions:
Protect from heat and direct sunlight.

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

8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:
Contains no substances with occupational exposure limit values.

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

8.2. Exposure controls:

Technical measures to prevent exposure:
Ensure good ventilation/exhaustion at the workplace.

General protective measures: Wash hands before breaks and at the end of work.
Avoid breathing vapours/spray.

Personal protection equipment:
Respiratory protection: Respiratory protection usually not required with adequate ventilation.
In case of brief exposure or low pollution use respiratory filter device.
Filter, type AX/P2.
In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection: Tightly sealed goggles.

Hand protection: Protective gloves
Solvent resistant gloves
The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.
Recommended material of gloves: nitrile rubber
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection: Protective clothing.

9. * Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Aerosol
Colour: White
Odour: Characteristic
Odour threshold: Not determined
Value pH at 20 °C: Not determined
Melting point/freezing point: Not determined

| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 4/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

Initial boiling point/boiling range: 100 °C
Flash point: < 0 °C
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Explosive properties: The product is not explosive. However, formation of explosive air/steam mixtures is possible.

Explosive limits:
– lower: 1.5 Vol. %
– upper: 12.6 Vol. %
Vapour pressure at 20°C: 2.7 Bar
Vapour density at 20 °C: Not determined
Density at 20°C: 0.967 g/cm³
Relative density: Not determined
Solubility in/miscibility: Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined
Ignition temperature: Not determined
Decomposition temperature: Not determined
Self-ignition temperature: The product is not selfigniting.
Viscosity: Not determined
Oxidising properties: Not determined

9.2. Other information:
Organic solvent: 8.8 %
Solid content: 7.3 %
Water: 82.9 %
VOC: 429.8 g/l

10. Section 10. Stability and reactivity:

10.1. Reactivity: No further relevant information available.
10.2. Chemical stability: No decomposition if used according to specifications.
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 decomposition products: No dangerous decomposition products known.

11. * Section 11. Toxicological information:

11.1. Information on toxicological effects:
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
Other information: No further relevant information available.

12. Section 12. Ecological information:

12.1. Toxicity:
Aquatic toxicity: No further relevant information available.
12.2. Persistence and degradability: No further relevant information available.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council




| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 5/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

- 12.3. Bioaccumulative potential: No further relevant information available.
- 12.4. Mobility in soil: No further relevant information available.
- Additional ecological information:
General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do now allow to enter water courses, ground water or drains in undiluted and/or large quantities.
- 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 disposal: Must not be disposed together with household garbage.
Do not allow product to reach sewage system.
European Waste Catalogue:
20 01 99 other fractions not otherwise specified
- Packagings disposal: Disposal must be made according to official regulations.
European Waste Catalogue:
15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*hazardous waste)
- Other disposal recommendations: Disposal must be made according to official regulations.
The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

- 14.1. UN number:
ADR, IMDG, IATA UN 1950
- 14.2. UN proper shipping name:
ADR 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable
- 14.3. Transport hazard class(es):
ADR
- 
- Class 2.1
Hazard label 2.1
IMDG
- 
- Class 2.1
Hazard label 2.1
IATA
- 
- Class 2.1
Hazard label 2.1
- 14.4. Packing group:
ADR, IMDG, IATA Void
- 14.5. Environmental hazards:
Marine pollutant: NO
- 14.6. Special precautions for user: Warning: gases
Danger Code (Kemler): -

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 6/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

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| EMS Number: | F-D, S-U |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: | Not applicable |
| ADR | |
| Excepted quantities (EQ): | Code: E0 Not permitted as Excepted Quantity |
| Transport category: | 2 |
| Tunnel restriction code: | D |
| IMDG | |
| Limited quantities (LQ): | 1L |
| Excepted quantities (EQ): | Code: E0 Not permitted as Excepted Quantity |
| UN "Model Regulation": | UN 1950, AEROSOLS, 2.1 |

15. * Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

Danish MAL Code: 0-1

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. * Section 16. Other information:

Relevant H-statements (Section 3):

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)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

PBT: Persistent, Bioaccumulative, Toxic

Reg.nr.: Registration number

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

Flam. Aerosol 1: Flammable aerosol, category 1

Flam. Gas 1: Flammable gas, category 1

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

| | | |
|----------------------------|---------------------|--------------|
| Date of issue: 3. 11. 2016 | Trade name: | Page: 7/7 |
| Reviewed on: | HAND PROTECT | Version: 2.0 |

Press. Gas: Gases under pressure

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

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.

***Compared to the last version the data has been changed.**