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

• 1.1 Product identifier
  • Trade name: MSV MULTISOLVE 200 & 500 ML
  • Article number: MSV 683041 and 683042
  • UFI: XTWQ-MX9X-HG5U-6GQW

• 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

• Sector of Use
  SU21 Consumer uses: Private households / general public / consumers
  SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

• Product category: PC35 Washing and cleaning products (including solvent based products)

• Process category
  PROC7 Industrial spraying
  PROC11 Non industrial spraying

• Application of the substance / the mixture
  Cleaning agent / Cleaner

• 1.3 Details of the supplier of the safety data sheet
  • Manufacturer/Supplier:
    C-Tec N.I. Limited
    Unit 6 Ashtree Enterprise Park,
    Rathfriland Road, Newry, Co. Down,
    N. Ireland, BT34 1BY.
    Email: info@ct1.com

  • Website: www.ct1.com

  • Further information obtainable from:
    Product safety department.
    msds@ct1.com

• 1.4 Emergency telephone number:
  Tel: +44(0)28 3083 4892 (Monday – Friday 9am – 5pm)
  UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture
  • Classification according to Regulation (EC) No 1272/2008

  GHS02 flame

  Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

  GHS07

  STOT SE 3 H336 May cause drowsiness or dizziness

• 2.2 Label elements
  • Labelling according to Regulation (EC) No 1272/2008
    The product is classified and labelled according to the CLP regulation.
MSV MULTISOLVE 200 & 500 ML

- **Hazard pictograms**
  - GHS02
  - GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

- **Hazard statements**
  - H336 May cause drowsiness or dizziness.

- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P211 Do not spray on an open flame or other ignition source.
  - P251 Do not pierce or burn, even after use.
  - P260 Do not breathe spray.
  - P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
  - P501 Dispose of contents / container in accordance with regional regulations.

- **Additional information:**
  - EUH066 Repeated exposure may cause skin dryness or cracking.

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

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>EC number: 919-857-5</th>
<th>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reg.nr.: 01-2119463258-33</td>
<td>50-&lt;75%</td>
</tr>
<tr>
<td>Flam. Liq. 3, H226</td>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 74-98-6</th>
<th>propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-827-9</td>
<td>12.5-&lt;20%</td>
</tr>
<tr>
<td>Index number: 601-003-00-5</td>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119486944-21</td>
<td>Press. Gas (Comp.), H280</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 106-97-8</th>
<th>butane</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 203-448-7</td>
<td>10-&lt;12.5%</td>
</tr>
<tr>
<td>Index number: 601-004-00-0</td>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119474691-32</td>
<td>Press. Gas (Comp.), H280</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 75-28-5</th>
<th>isobutane</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-857-2</td>
<td>10-&lt;12.5%</td>
</tr>
<tr>
<td>Index number: 601-004-00-0</td>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119485395-27</td>
<td>Press. Gas (Comp.), H280</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.
MSV MULTISOLVE 200 & 500 ML

SECTION 4: First aid measures

· 4.1 Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

· 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
  · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture
  During heating or in case of fire poisonous gases are produced.

· 5.3 Advice for firefighters -
  · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation
  Keep away from ignition sources.
  Mount respiratory protective device.
  Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: No special measures required.

· 6.3 Methods and material for containment and cleaning up:
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.

· 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:
  Do not spray onto a naked flame or any incandescent material.
  Keep ignition sources away - Do not smoke.
  Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:
  · Requirements to be met by storerooms and receptacles:
    Observe official regulations on storing packagings with pressurised containers.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: Keep container tightly sealed.
  · Storage class: 2 B

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

(Contd. on page 4)
SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>106-97-8 butane</th>
<th>WEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-term value: 1810 mg/m³, 750 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1450 mg/m³, 600 ppm</td>
<td></td>
</tr>
<tr>
<td>Carc (if more than 0.1% of buta-1,3-diene)</td>
<td></td>
</tr>
</tbody>
</table>

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:
  Wash hands before breaks and at the end of work.
  Do not inhale gases / fumes / aerosols.

· Respiratory protection:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
  Butyl rubber gloves with a thickness of 0.4 mm are resistant to:
  Acetone: 480 min
  Butyl acetate: 60 min
  Ethyl acetate: 170 min
  Xylene: 42 min
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:
  Form: Aerosol
  Colour: Colourless

· Odour:
  Odour: Solvent-like
  Odour threshold: Not determined.

· pH-Value:
  Not determined.

· Change in condition
  Melting point/freezing point: Undetermined.
  Initial boiling point and boiling range: Not applicable, as aerosol.

· Flash point:
  Not applicable, as aerosol.

· Flammability (solid, gas):
  Not applicable, as aerosol.
MSV MULTISOLVE 200 & 500 ML

(Contd. of page 4)

- Ignition temperature: 240 °C (464 °F)
- Decomposition temperature: Not determined
- Explosive properties: Not determined.

- Explosion limits:
  Lower: 0.6 Vol %
  Upper: 10.9 Vol %
- Vapour pressure at 20 °C (68 °F): 3500 hPa (2625.2 mm Hg)
- Density at 20 °C (68 °F): 0.67 g/cm³ (5.59 lbs/gal)
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not applicable.

- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

- Solvent content:
  Organic solvents: 100.0 %
  VOC (EC): --
  VOC-EU%: 665.0 g/l
  VOC-EU%: 100.00 %
- Solids content: 0.0 %
- 9.2 Other information: No further relevant information available

SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: 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.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- Primary irritant effect:
- 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 sensitisation: Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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:
  May cause drowsiness or dizziness.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.

(Contd. on page 6)
MSV MULTISOLVE 200 & 500 ML

(Contd. of page 5)

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

SECTION 12: Ecological information

12.1 Toxicity

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.

Additional ecological information:

General notes: Not hazardous for water.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 01 13*</td>
<td>solvents</td>
</tr>
<tr>
<td>15 01 04</td>
<td>metallic packaging</td>
</tr>
</tbody>
</table>

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR 1950

IMDG

IATA

AEROSOLS

AEROSOLS

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR

Class

Label

2.5F Gases.

2.1

(Contd. on page 7)
MSV MULTISOLVE 200 & 500 ML

(Contd. of page 6)

- IMDG, IATA

- Class 2.1
- Label 2.1

- 14.4 Packing group
- ADR, IMDG, IATA not regulated

- 14.5 Environmental hazards: Not applicable.

- 14.6 Special precautions for user Warning: Gases.
- Danger code (Kemler): -
- EMS Number: F-D,S-U
- Stowage Code SW1 Protected from sources of heat.
  SW22 For AEROSOLS with a maximum capacity of 1 litre:
  Category A. For AEROSOLS with a capacity above 1 litre:
  Category B. For WASTE AEROSOLS:
  Category C. Clear of living quarters.

- Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:
  Segregation as for class 9. Stow "separated from" class 1 except for
  division 1.4.
  For AEROSOLS with a capacity above 1 litre:
  Segregation as for the appropriate subdivision of class 2.
  For WASTE AEROSOLS:
  Segregation as for the appropriate subdivision of class 2.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

- Transport/Additional information:

- ADR
  - Limited quantities (LQ) 1L
  - 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
SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Seveso category P3a FLAMMABLE AEROSOLS
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- National regulations:
  - Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57
  None of the ingredients is listed.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

- Relevant phrases
  H220 Extremely flammable gas.
  H226 Flammable liquid and vapour.
  H280 Contains gas under pressure; may explode if heated.
  H304 May be fatal if swallowed and enters airways.
  H336 May cause drowsiness or dizziness

- Department issuing MSDS: R&D legislation and regulatory advisor.
- Contact: msds@ct1.com

- 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 Harmonised 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 (division of the American Chemical Society)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Flam. Gas 1: Flammable gases – Category 1
  Aerosol 1: Aerosols – Category 1
  Press. Gas (Comp.): Gases under pressure – Compressed gas
  Flam. Liq. 3: Flammable liquids – Category 3
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.