SAFETY DATA SHEET

1. Identification

| Product number | 198316 | |
|-----------------------------------|---|------------|
| Product identifier | 16 OZ MALCO ONE STEP DETAIL SPRAY 1 | 2PK |
| Company information | MALCO PRODUCTS 361 FAIRVIEW AVE BARBERTON, OH 44203 United States | |
| Company phone | General Assistance 330-753-0361 | |
| Emergency telephone US | 1-866-836-8855 | |
| Emergency telephone outside US | 1-952-852-4646 | |
| Version # | 01 | |
| Recommended use | Not available. | |
| Recommended restrictions | None known. | |
| 2. Hazard(s) identification | | |
| Physical hazards | Flammable aerosols | Category 1 |
| Health hazards | Not classified. | |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |
| | | |
| | | |
| | $\mathbf{\nabla}$ | |

| Signal word | Danger |
|--|--|
| Hazard statement | Extremely flammable aerosol. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. |
| Response | Wash hands after handling. |
| Storage | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|----------------------------------|--------------------------|------------|----------|
| 2-Butoxyethanol | | 111-76-2 | 1 - 2.5 |
| Butane | | 106-97-8 | 1 - 2.5 |
| Ethyl Alcohol | | 64-17-5 | 1 - 2.5 |
| Polydimethylsiloxane | | 63148-62-9 | 1 - 2.5 |
| Propane | | 74-98-6 | 1 - 2.5 |
| Other components below reportabl | e levels | | 90 - 100 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
|--|---|
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Not available. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| 5. Fire-fighting measures | |
| | |

| 5 5 | |
|--|--|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. |
| General fire hazards | Extremely flammable aerosol. |
| | |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. |
|---|---|
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol. |

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) | | | | |
|---|------|-----------|--|--|
| Components | Туре | Value | | |
| 2-Butoxyethanol (CAS 111-76-2) | PEL | 240 mg/m3 | | |

| Components | | Туре | (29 CFR 1910.10 | | Value |
|---|---|---|--|---|---|
| · | | | | | |
| | - | DEI | | | 50 ppm |
| Ethyl Alcohol (CAS 64-17-5 | 5) | PEL | | | 1900 mg/m3 |
| | | סכו | | | 1000 ppm |
| Propane (CAS 74-98-6) | | PEL | | | 1800 mg/m3 |
| | | | | | 1000 ppm |
| US. ACGIH Threshold Lim | nit Values | | | | |
| Components | | Туре | | | Value |
| 2-Butoxyethanol (CAS | | TWA | | | 20 ppm |
| 111-76-2) | | | | | pp |
| Butane (CAS 106-97-8) | | STEL | | | 1000 ppm |
| Ethyl Alcohol (CAS 64-17-5 | 5) | STEL | | | 1000 ppm |
| US. NIOSH: Pocket Guide | to Chemical Ha | zards | | | |
| Components | | Туре | | | Value |
| · · · · · · · · · · · · · · · · · · · | | | | | |
| 2-Butoxyethanol (CAS 111-76-2) | | TWA | | | 24 mg/m3 |
| 111-70-2) | | | | | 5 ppm |
| Butane (CAS 106-97-8) | | TWA | | | 1900 mg/m3 |
| | | | | | 800 ppm |
| Ethyl Alcohol (CAS 64-17-5 | 5) | TWA | | | 1900 mg/m3 |
| | <i></i> | IVVA | | | 1000 ppm |
| Propane (CAS 74-98-6) | | TWA | | | 1800 mg/m3 |
| | | 1 | | | 1000 ppm |
| | | | | | 1000 pp |
| logical limit values | | | | | |
| ACGIH Biological Exposu | | | Determinent | 0 | |
| Components | Value | | Determinant | Specimen | Sampling Time |
| 2-Butoxyethanol (CAS 111-76-2) | 200 mg/g | | Butoxyacetic acid (BAA), with hydrolysis | Creatinine urine | in * |
| * - For sampling details, ple | asso soo the sour | co docu | | | |
| | | | ment. | | |
| osure guidelines | | | | | |
| US - California OELs: Ski | | | | | |
| 2-Butoxyethanol (CAS US - Minnesota Haz Subs | | on appli | | e absorbed th | rough the skin. |
| 2-Butoxyethanol (CAS | | | Skin d | esignation app | olies. |
| US - Tennesse OELs: Ski | n designation | | | | |
| 2-Butoxyethanol (CAS US NIOSH Pocket Guide t | | ards: Sł | | e absorbed th | rough the skin. |
| 2-Butoxyethanol (CAS US. OSHA Table Z-1 Limit | | ninants | | | rough the skin. |
| | | | | 00, | |
| 2-Butoxvethanol (CAS | 111-76-2) | | Can be | | rough the skin. |
| 2-Butoxyethanol (CAS propriate engineering strols | - | oof gen | Can be eral and local exh | e absorbed th | rough the skin. n. |
| propriate engineering trols | Explosion-pro | - | eral and local exh | e absorbed the aust ventilatio | - |
| propriate engineering | Explosion-pro | onal pro | eral and local exh ptective equipme | e absorbed the aust ventilatio | - |
| propriate engineering trols ividual protection measure | Explosion-pro | onal pro ikely, sa | eral and local exh otective equipme fety glasses with | e absorbed the aust ventilatio | n. |
| oropriate engineering itrols ividual protection measure Eye/face protection Hand protection | Explosion-pro es, such as perso If contact is li | onal pro ikely, sa | eral and local exh otective equipme fety glasses with | e absorbed the aust ventilatio | n. |
| oropriate engineering itrols ividual protection measure Eye/face protection Hand protection Skin protection | Explosion-pro es, such as perso If contact is li Wear protect | onal pro ikely, sa ive glov | eral and local exh otective equipme fety glasses with es. | e absorbed the aust ventilatio | n. |
| oropriate engineering itrols ividual protection measure Eye/face protection Hand protection Skin protection Other | Explosion-pro es, such as perso If contact is li Wear protect Wear suitable | onal pro ikely, sa ive glov e protec | eral and local exh otective equipme fety glasses with res. ctive clothing. | e absorbed thi aust ventilatio ent side shields a | n. |
| oropriate engineering itrols ividual protection measure Eye/face protection Hand protection Skin protection | Explosion-pro es, such as perso If contact is li Wear protect Wear suitable If engineerin limits (where | onal pro ikely, sa ive glov e protec ig contro applica | eral and local exh otective equipme fety glasses with res. ctive clothing. ols do not maintai | e absorbed thi aust ventilatio ent side shields a n airborne cor ptable level (i | n. re recommended. ncentrations below recommended exposure n countries where exposure limits have no |

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

| Appearance | |
|--|--|
| Physical state | Gas. |
| Form | Aerosol. |
| Color | off-white |
| Odor | Citrus |
| Odor threshold | Not available. |
| рН | 9.5 - 10.5 |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 212 °F (100 °C) estimated |
| Flash point | -156.0 °F (-104.4 °C) Propellant estimated |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or exp | losive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 67 - 77 psig @70F estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Specific gravity | 0.99 - 1 estimated |
| 10. Stability and reactivity | |
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. Fire or intense heat may cause violent rupture of packages. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |
| 11. Toxicological informat | ion |
| | |

Information on likely routes of exposure Ingestion Expected to be a low ingestion hazard. Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected.

Eye contact

Acute toxicity

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

| 2Butaxyethanol (CAS 111-76-2) Acute Dormal LD50 Guinea pig 230 ml/kg, 24 Hours Rabbit 450 ml/kg, 24 Hours 455 ml/kg, 24 Hours 0.63 ml/kg Rat LD50 Rabbit 400 ppm, 7 Hours Rat CS0 Rabbit 400 ppm, 7 Hours 450 ppm, 4 Hours Oral LD100 Rabbit 695 mg/kg Guinea pig 1200 mg/kg Rat 530 - 2800 mg/kg Guinea pig 1200 mg/kg Rat 530 - 2800 mg/kg Rat 1325 mg/l Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 53 %, 120 Minutes 54 %, 120 Minutes 53 %, 120 Minutes 54 %, 120 Minutes 54 %, 120 Minutes 51 %, 130 mg/l, 4 Hours Cral LD50 Mouse 151 % mg/l, 4 Hours Cral LD50 Mouse 151 % mg/l, 4 Hours Cral LD50 Monkey 6000 ppm 79.43 mg/l, 134 Minutes 51 % mg/l, 4 Hours 51 % mg/l, 4 Hours 7800 ml/kg Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | | |
|---|-----------------------------|------------|------------------------|
| Acute Jormal Dermal 7.3 ml/kg, 4 Hours LD50 Guinea pig 7.3 ml/kg, 4 Hours LD50 Rabbit 450 ml/kg, 24 Hours Ad5 mg/kg, 24 Hours 450 ml/kg, 24 Hours Inhalation Inhalation 63 ml/kg Inhalation 800 pm, 7 Hours 100 pm, 7 Hours Oral Rat 605 mg/kg D10 Guinea pig 605 mg/kg D10 Guinea pig 300 mg/kg LD50 Dog 900 mg/kg LD50 Guinea pig 300 mg/kg LD50 Mouse 300 mg/kg Acute 1237 mg/l, 120 Minutes Inhalation 52 %, 120 Minutes Inhalation 52 %, 120 Minutes LC50 Mouse 3000 pg/li 34 Minutes LC50 Cat 43.68 mg/l, 61 Hours LC50 Mouse 9030 mg/kg LD50 Mouse 9030 mg/kg LD50 Mouse 6000 mg/kg LD50 Mouse 115.9 mg/l, 4 Hours LD50 Mouse 10500 ml/kg Mouse </th <th>Components</th> <th>Species</th> <th>Test Results</th> | Components | Species | Test Results |
| DemaiUseLD50Guinea pig230 ml/kg, 24 HoursRabbit450 ml/kg, 24 Hours435 mg/kg, 24 Hours630 ml/kg, 24 HoursLS50Rabbit0.83 ml/kgLC50Rabbit400 ppm, 7 HoursLC50Rabbit400 ppm, 7 HoursLC50Rabbit605 ppm, 4 HoursLD100Rabbit695 mg/kgLD100Rabbit695 mg/kgLD50Dog000 mg/kgLD50Rabbit695 mg/kgLD50Mouse530 - 2800 mg/kgLD50Mouse1237 mg/l, 120 MinutesLC50Mouse1237 mg/l, 120 MinutesLC50Mouse1355 mg/lLC50Cat43.68 mg/l, 6 HoursHaladion1237 mg/l, 120 MinutesLC50Cat43.68 mg/l, 6 HoursLC50Mouse5000 pg/kgLC50Mouse5000 mg/kgLC50Mouse5000 mg/kgLC50Mouse115.9 mg/l, 4 HoursLC50Mouse10500 mi/kgLC50Mouse6000 mg/kgLC50Mouse6000 mg/kgLC50Mouse6000 mg/kgLC50Mouse10500 mi/kgPropertsKat115.9 mg/l, 4 HoursLC50Mouse6000 mg/kgPropertsMouse6000 mg/kgPropertsMouse6000 mg/kgMouse10500 mi/kgMouse10500 mi/kgMouse10500 mi/kgMouse10500 mi/kgM | | -2) | |
| LD50Guinea pig230 mt/kg. 24 Hours7.3 mt/kg. 42 Hours450 mt/kg. 42 Hours450 mt/kg. 42 Hours063 mt/kg450 mt/kg. 42 Hours063 mt/kg1Kat2000 mg/kg. 24 Hours1Kat400 ppm, 7 HoursLC50Rabbit400 ppm, 7 Hours1Cal400 ppm, 7 Hours1Cal695 mg/kg1D00Rabbit695 mg/kg1D100Rabbit695 mg/kg1D032000 mg/kg1Calinea pig200 mg/kg1Calinea pig237 mg/l 120 Minutes1Calinea pig368 mg/l, 6 Hours1Calinea pig36000 pm1Mouse60000 g/kg1Mouse10500 mt/kg1Calinea pig115.9 mg/l, 4 Hours1Calinea pig115.9 mg/l, 4 Hours1Calinea pig1000 mt/kg1Mouse1000 mt/kg1Mouse1000 mt/kg1Mouse1000 mt/kg1Mouse1000 mt/kg1 </td <td></td> <td></td> <td></td> | | | |
| 7.3 mi/kg, 4 Days Rabbit 450 mi/kg, 24 Hours 435 mg/kg, 24 Hours 0.63 mi/kg 0.63 mi/kg 0.63 mi/kg Kat > 2000 mg/kg, 24 Hours LC50 Rabbit 400 ppm, 7 Hours LC50 Rabbit 400 ppm, 7 Hours Oral 100 ppm, 7 Hours 100 ppm, 7 Hours LD100 Rabbit 695 mg/kg LD100 Rabbit 695 mg/kg LD50 Guinea pig 200 mg/kg Cate 600 mg/kg 200 mg/kg Inhalation 1237 mg/l, 120 Minutes 52 %, 120 Minutes LC50 Mouse 1237 mg/l, 120 Minutes Ethyl Atcohol (CAS 64-17-5) Acute 1365 mg/l Inhalation 1235 mg/l 1237 mg/l, 120 Minutes LC50 Cat 85.41 mg/l, 4.5 Hours Acute 1365 mg/l 136 mg/l Inhalation 1237 mg/l, 144 Minutes LC50 Cat 85.41 mg/l, 4.5 Hours Acute 115.9 mg/l, 4 Hours Inhalation 1237 mg/l, 134 Minutes LC50 Mouse 60000 mg/l Mouse 1050 mi/kg Rat 115.9 mg/l, 4 Hours LD50 Monkey 6000 mg/l Mouse <td></td> <td>Guinea pig</td> <td>230 ml/kg, 24 Hours</td> | | Guinea pig | 230 ml/kg, 24 Hours |
| Rabbit 450 ml/kg, 24 Hours 435 mg/kg, 24 Hours 0.63 ml/kg Rat 0.63 ml/kg, 24 Hours Inhalation 2000 mg/kg, 24 Hours LC50 Rabbit 400 ppn, 7 Hours Rat 2000 mg/kg, 24 Hours Oral 400 ppn, 7 Hours LD100 Rabbit 695 mg/kg LD100 Rabbit 200 mg/kg LD50 Dog 9695 mg/kg Acute 200 mg/kg 200 mg/kg Kata 200 mg/kg 200 mg/kg LD50 Mouse 237 mg/t, 120 Minutes S2 %, 120 Minutes 530 - 28000 mg/kg LC50 Mouse 237 mg/t, 120 Minutes Ethyl Alcohol (CAS 64-17-5) 237 mg/t, 120 Minutes Acute 1237 mg/t, 45 Hours 3.68 mg/t, 64 Hours LC50 Cat 85.41 mg/t, 4.5 Hours Halation 13.68 mg/t, 64 Hours LC50 Cat 3.68 mg/t, 64 Hours LC50 Mouse 60000 pp/ta LC50 Monkey 60000 mg/kg LC50 Monkey 6000 mg/kg LC50 Monkey 6000 mg/kg LC50 Monkey 6000 mg/kg LD50 Monkey 6000 mg/kg Mouse </td <td></td> <td></td> <td></td> | | | |
| 435 mg/kg, 24 Hours 063 ml/kg Inhalation LC50 Rabbit Aat 400 ppm, 7 Hours C07al 695 mg/kg LD100 Rabbit D1100 Rabbit Babbit 695 mg/kg LD50 Dog Acute 695 mg/kg LD50 Rat Babbit 695 mg/kg LD50 Dog Acute 635 mg/kg Inhalation 1200 mg/kg Acute 1237 mg/t, 120 Minutes Inhalation 52 %, 120 Minutes Acute 1355 mg/l Inhalation 1237 mg/t, 120 Minutes LC50 Kouse 2368 mg/l, 64 Ours Acute 1355 mg/l Inhalation 1355 mg/l LC50 Kouse 60000 ppm Acute 640000 ppm Inhalation 79.43 mg/l, 134 Minutes LC50 Kat 115.9 mg/l, 4 Hours Acute 60000 ppm Inhalation 79.43 mg/l, 134 Minutes LC50 Monkey 60000 mg/kg Mouse 115.9 mg/l, 4 Hours ID50 Monkey 60000 mg/kg Mouse 1050 ml/kg | | Rabbit | |
| InductionInfaltationInfaltationLCS0Rabbit400 ppm, 7 HoursLCS0Rabbit400 ppm, 7 HoursRat400 ppm, 4 HoursOralInternet (Composition of the composition of the com | | | |
| Rat2000 mg/kg, 24 HoursInhaliation400 ppm, 7 HoursLC50Rabbit400 ppm, 7 HoursRat400 ppm, 4 HoursOral950 mg/kgLD100Rabbit965 mg/kgLD50Og969 mg/kgRat1200 mg/kgBatane (CAS 106-97-8)30 - 2800 mg/kgAcute1237 mg/l, 120 MinutesLC50Mouse237 mg/l, 120 MinutesLC50Mouse1337 mg/l, 120 MinutesLC50Rat355 mg/tHalation1355 mg/tLC50Cat85.41 mg/l, 4.5 HoursInhalation34.68 mg/l, 6 HoursLC50Cat85.41 mg/l, 4.5 HoursInhalation34.68 mg/l, 6 HoursLC50Rat51.3 mg/l, 134 MinutesLC50Cat31.68 mg/l, 6 HoursInhalation13.7 mg/l, 134 MinutesLC50Mouse6000 mg/kgInhalation51.3 mg/l, 6 HoursLC50Mouse13.0 mg/l, 6 HoursLC50Monse1000 mg/kgMouse1187 - 2769 mg/kgMouse1187 - 2769 mg/kgPaperture CAS 74-98-6/740 mg/l, 120 MinutesPaperture CAS 74-98-6/KatLC50Mouse1000 mg/kg | | | |
| Inhalation LC50 Rabbit Acts Rat Con Rat | | Rat | - |
| LC50Rabit400 ppm, 7 HoursRat50 ppm, 4 HoursOral50 ppm, 4 HoursLD100Rabit695 mg/kgLD50Dog> 695 mg/kgKata600 ng/kg600 ng/kgLD50Rat500 rg/kgAcuteAcute50 - 2800 mg/kgLC50Mouse237 mg/l, 120 MinutesLC50Rat355 mg/lKataKata355 mg/lLC50Rat368 s41 mg/l, 4.5 HoursLC50Acute52 %, 120 MinutesLC50Rat368 mg/l, 6 HoursKataKata54 mg/l, 4.5 HoursLC50Rat368 mg/l, 6 HoursLC50Rat315 mg/l, 134 MinutesLC50Rat315 mg/l, 4 HoursLC50Rat6000 mg/kgCralRat115 9 mg/l, 14 MinutesLD50Mouse6000 mg/kgMouse150 mi/kgCralRat115 9 mg/l, 2769 mg/kgLD50Mouse1050 mi/kgMouse1050 mi/kgAcute127 769 mg/kgLD50Kata118 - 2769 mg/kgAcuteKatue118 - 2769 mg/kgCX7 4-98-6/Katue127 mg/l, 120 MinutesLC50Mouse128 mg/l, 120 Minutes | Inhalation | Nat | > 2000 mg/kg, 24 mours |
| Rat 4000 m, 4 Hours Oral | | Rabbit | 400 ppm, 7 Hours |
| Oral Rabbit 695 mg/kg LD100 Rabbit 695 mg/kg LD50 Dog 695 mg/kg Butane (CAS 106-97-8) Rat 530 - 2800 mg/kg Acute 1237 mg/l, 120 Minutes 52 %, 120 Minutes LD50 Mouse 1237 mg/l, 120 Minutes LC50 Mouse 52 %, 120 Minutes Ethyl Alcohol (CAS 64-17-5) Rat 355 mg/l Acute 1155 mg/l, 150 Minutes Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours LC50 Cat 43.68 mg/l, 6 Hours 31.3 mg/l, 134 Minutes Rat 115.9 mg/l, 134 Minutes 51.3 mg/l, 6 Hours 13.1 mg/l, 6 Hours Cral Rat 115.9 mg/l, 14 Hours 51.3 mg/l, 6 Hours Cral Rat 115.9 mg/l, 14 Minutes 11.5 mg/l, 6 Hours Cral Rat 115.9 mg/l, 21 Minutes 11.5 mg/l, 6 Hours Cral Rat 115.9 mg/l, 21 Minutes 11.5 mg/l, 6 Hours Cral Rat 1167 - 2769 mg/kg 7800 ml/kg Mouse 1187 - 2769 mg/kg 7800 ml/kg 7800 ml/kg Propent (C | | | |
| LD100Rabbit695 mg/kgLD50Dog<695 mg/kg | Oral | | |
| LD50Dog> 695 mg/kgGuinea pig1200 mg/kgRat300 - 2800 mg/kgSutare (CAS 106-97-8) | | Rabbit | 695 mg/kg |
| Rat 500 mg/kg Sutane (CAS 106-97-8) Acute Inhalation LC50 Mouse 237 mg/l, 120 Minutes 52 %, 120 Minutes 53 mg/l, 4 Hours 51.3 mg/l, 6 Hours 70 mg/l 4 Mouse | LD50 | Dog | > 695 mg/kg |
| Rat 500 mg/kg Sutane (CAS 106-97-8) Acute Inhalation LC50 Mouse 237 mg/l, 120 Minutes 52 %, 120 Minutes 53 mg/l, 4 Hours 51.3 mg/l, 4 Hours 51.3 mg/l, 4 Hours 51.3 mg/l, 4 Hours 51.3 mg/l, 6 Hours 6000 mg/kg Mouse Mouse 10500 ml/kg Mouse Mouse 10500 ml/kg Mouse Mouse 10500 ml/kg Mouse Mouse 10500 ml/kg Mouse Mouse 10500 ml/kg Mouse | | Guinea pig | 1200 mg/kg |
| Butane (CAS 106-97-8) Acute Inhalation LCS0 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 53 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours 51.3 mg/l, 134 Minutes 51.3 mg/l, 14 Hours 51.3 mg/l, 6 Hours Cral LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg 7800 ml/kg | | | |
| Acute Inhalation 237 mg/l, 120 Minutes LC50 Mouse 237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes Fat 355 mg/l Acute 1355 mg/l Inhalation 43.68 mg/l, 61 Hours LC50 Cat 36.68 mg/l, 61 Hours LC50 Mouse 50000 ppm Rat 51.3 mg/l, 134 Minutes LC50 Monkey 6000 ng/kg Mouse 51.3 mg/l, 61 Hours Coral 115.9 mg/l, 41 Hours LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 10500 ml/kg Rat 10500 ml/kg Rat 1187 - 2769 mg/kg Mouse 1187 - 2769 mg/kg Proper (CAS 74-98-6) Katte Inhalation 1187 - 2769 mg/kg LC50 Mouse 1237 mg/l, 120 Minutes | 3utane (CAS 106-97-8) | | |
| LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 1355 mg/l 1355 mg/l 1355 mg/l 1355 mg/l 1355 mg/l 1355 mg/l 1455 mg/ | | | |
| Rat 52 %, 120 Minutes Rat 1355 mg/l Acute Inhalation 43.68 mg/l, 4.5 Hours LC50 Cat 85.41 mg/l, 4.5 Hours Mouse > 60000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes Rat > 115.9 mg/l, 4 Hours LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg Acute 7800 ml/kg Propart CAS 74-98-6) Acute L50 Mouse 1237 mg/l, 120 Minutes | | | |
| Rat1355 mg/lEthyl Alcobol (CAS 64:17:5)AcuteInhalationLC50CatMouseParametric All SolutionRatDataDataAnterBardin All SolutionLC50MouseSolution All SolutionSolution All SolutionBardin All Solution All SolutionAnterBardin All Solution All SolutionAll Solution All SolutionAll Solution All Solution All SolutionAcuteInhalationAcuteInhalationLC50MouseCatueInhalationLC50MouseSolution All SolutionSolution All SolutionAcuteInhalationLC50MouseSolution All SolutionSolution All SolutionS | LC50 | Mouse | 1237 mg/l, 120 Minutes |
| Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes 51.3 mg/l, 6 Hours 51.3 mg/l, 14 Minutes 51.3 mg/l, 14 Minutes 51.3 mg/l, 6 Hours 51.3 mg/l, 6 Hours 51.3 mg/l, 6 Hours 51.3 mg/l, 10 Minutes 51.3 mg/l, 120 Minutes 4.000 mg/kg 1.0500 ml/kg 7800 ml/kg | | | 52 %, 120 Minutes |
| Acute Inhalation LC50 Cat Cat Sr4-98-6) Acute Inhalation Cral LD50 Monkey Acute Inhalation CCS 74-98-6) Acute Inhalation LC50 Mouse Mouse 1237 mg/l, 120 Minutes | | Rat | 1355 mg/l |
| Inhalation LC50 Cat Acute Acute LC50 Cat Acute Acute LC50 Cat Acute CCAS 74-98-6) Acute LC50 Mouse Acute Inhalation LC50 Mouse Mouse Acute Inhalation LC50 Mouse M | Ethyl Alcohol (CAS 64-17-5) | | |
| LC50 Cat 85.41 mg/l, 4.5 Hours JA 68 mg/l, 6 Hours 43.68 mg/l, 6 Hours Mouse > 60000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes Rat > 115.9 mg/l, 4 Hours LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 10500 ml/kg Rat 1187 - 2769 mg/kg Acute 7800 ml/kg Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | | |
| 43.68 mg/l, 6 Hours Mouse > 60000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes > 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours Varia LD50 Monkey Mouse Mouse 10500 ml/kg Mouse 10500 ml/kg Rat 10500 ml/kg Rat 1187 - 2769 mg/kg Acute Inhalation LC50 Mouse Mouse 1237 mg/l, 120 Minutes | | 0-1 | |
| Mouse > 6000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes 51.3 mg/l, 6 Hours 51.3 mg/l, 74 Mouse 700 mg/kg 100 mg/kg 1187 - 2769 mg/kg 7800 mg/ | LC50 | Cat | - |
| Propane (CAS 74-98-6) Acute Acute Inhalation LC50 Mouse 1000 mg/kg 1187 - 2769 mg/kg | | | |
| Rat > 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours 51.3 mg/l, 6 Hours Oral LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg Propane (CAS 74-98-6) Kate Acute Inhalation LC50 Mouse Mouse 1237 mg/l, 120 Minutes | | Mouse | |
| Oral LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg 7800 ml/kg Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse Mouse 1237 mg/l, 120 Minutes | | - | |
| Oral LD50 Monkey 600 mg/kg Mouse 10500 ml/kg 187 - 2769 mg/kg 187 - 276 mg/kg 187 | | Rat | _ |
| LD50 Monkey Monkey 6000 mg/kg Mouse 10500 ml/kg It87 - 2769 mg/kg 1187 - 2769 mg/kg 187 - 2769 mg/kg Mouse 1000 ml/kg 187 - 2769 mg/kg Mouse 1237 mg/l, 120 Minutes | | | 51.3 mg/l, 6 Hours |
| Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg 7800 ml/kg Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse Mouse | | Mankar | 6000 ~~ // ~ |
| Rat 1187 - 2769 mg/kg 7800 ml/kg Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | LDOU | | |
| Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | | - |
| Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | Rat | |
| Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | | 7800 mi/κg |
| Inhalation LC50 Mouse 1237 mg/l, 120 Minutes | | | |
| LC50 Mouse 1237 mg/l, 120 Minutes | | | |
| - | | Mouse | 1237 mg/l, 120 Minutes |
| | | | 52 %, 120 Minutes |

| Components | Species | Test Results |
|---|---|---|
| | Rat | 1355 mg/l |
| | | 658 mg/l/4h |
| Skin corrosion/irritation | Prolonged skin contact may | cause temporary irritation. |
| Serious eye damage/eye irritation | Direct contact with eyes may | cause temporary irritation. |
| Respiratory or skin sensitizatio | n | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitization | This product is not expected | to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate mutagenic or genotoxic. | product or any components present at greater than 0.1% are |
| Carcinogenicity | This product is not considere | d to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| IARC Monographs. Overall | Evaluation of Carcinogenicity | , |
| 2-Butoxyethanol (CAS 1 OSHA Specifically Regulate Not listed. | 11-76-2) d Substances (29 CFR 1910.1 | 3 Not classifiable as to carcinogenicity to humans. 1001-1050) |
| Reproductive toxicity | This product is not expected | to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not an aspiration hazard. | |

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product | | Species | Test Results |
|------------------------------|--------------------|---------------------------------------|-------------------------------------|
| 16 OZ MALCO ONE STEP D | DETAIL SPRAY 12 | 2PK (CAS Mixture) | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 14940.9736 mg/L, 48 Hours estimated |
| Fish | LC50 | Fish | 1051.5981 mg/l, 96 hours estimated |
| Acute | | | |
| Algae | IC50 | Algae | 2033.7108 mg/L, 72 Hours estimated |
| Components | | Species | Test Results |
| 2-Butoxyethanol (CAS 111-7 | '6-2) | | |
| Aquatic | | | |
| Fish | LC50 | Inland silverside (Menidia beryllina) | 1250 mg/l, 96 hours |
| Ethyl Alcohol (CAS 64-17-5) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 7700 - 11200 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 100.1 mg/l, 96 hours |
| Polydimethylsiloxane (CAS 6 | 63148-62-9) | | |
| Aquatic | | | |
| Fish | LC50 | Channel catfish (Ictalurus punctatus) | 2.36 - 4.15 mg/l, 96 hours |
| sistence and degradability | Not available. | | |
| accumulative potential | Not available. | | |
| Partition coefficient n-octa | nol / water (log k | (ow) | |
| 2-Butoxyethanol | | 0.83 | |
| Butane Ethyl Alcohol | | 2.89 -0.31 | |
| Propane | | 2.36 | |
| bility in soil | Not available. | | |
| er adverse effects | Not available. | | |
| duct name: 16 OZ MALCO ONE | STEP DETAIL SPE | RAY 12PK | SD |

13. Disposal considerations

| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
|--|--|
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

| UN number | UN1950 |
|---|---|
| UN proper shipping name Transport hazard class(es) | Aerosols, flammable |
| Class | 2.1 |
| Subsidiary risk | • |
| Label(s) | 2.1 |
| Packing group | Not applicable. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | N82 |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

ΙΑΤΑ

| IATA | |
|---------------------------------|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | |
| Label(s) Packing | 2.1 |
| group Environmental | Not applicable. |
| hazards ERG Code | No. |
| | 10L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |
| Packaging Exceptions | LTD QTY |
| IMDG | |
| UN number | UN1950 |
| UN proper shipping name | AEROSOLS |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | • |
| Label(s) Packing | 2.1 |
| group Environmental | Not applicable. |
| hazards | |
| Marine pollutant | No. |
| EmS | Not available. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Packaging Exceptions | LTD QTY |

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

DOT



15. Regulatory information This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - No Hazard categories Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Butane (CAS 106-97-8) Propane (CAS 74-98-6) Not regulated. Safe Drinking Water Act (SDWA)

| US state regulations | | | |
|---|--|---|--|
| US. Massachusetts RTK - Substance List | | | |
| 2-Butoxyethanol (CAS 1 | 11-76-2) | | |
| Butane (CAS 106-97-8) | , | | |
| Ethyl Alcohol (CAS 64-1) Propane (CAS 74-98-6) | 7-5) | | |
| | Community Right-to-Know Act | | |
| 2-Butoxyethanol (CAS 1 | | | |
| Butane (CAS 106-97-8) | - , | | |
| Ethyl Alcohol (CAS 64-1 | 7-5) | | |
| Propane (CAS 74-98-6) | nd Community Right-to-Know Law | | |
| 2-Butoxyethanol (CAS 1 | | | |
| Butane (CAS 106-97-8) | 11-70-2) | | |
| Ethyl Alcohol (CAS 64-1 | 7-5) | | |
| Propane (CAS 74-98-6) | | | |
| US. Rhode Island RTK Butane (CAS 106-97-8) | | | |
| Propane (CAS 74-98-6) | | | |
| US. California Proposition 6 | 65 | | |
| WARNING: This product | contains a chemical known to the State of California to cause cancer. | | |
| US - California Proposi | tion 65 - CRT: Listed date/Carcinogenic substance | | |
| Diethanolamine (CA | S 111-42-2) Listed: June 22, 2012 | | |
| International Inventories | | | |
| Country(s) or region | Inventory name | On inventory (yes/no)* | |
| Australia | Australian Inventory of Chemical Substances (AICS) | No | |
| Canada | Domestic Substances List (DSL) | Yes | |
| Canada | Non-Domestic Substances List (NDSL) | No | |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No | |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No | |
| Europe | European List of Notified Chemical Substances (ELINCS) | No | |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No | |
| Korea | Existing Chemicals List (ECL) | No | |
| New Zealand | New Zealand Inventory | No | |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No | |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes | |
| *A "Yes" indicates that all compo A "No" indicates that one or more country(s). | nents of this product comply with the inventory requirements administered by th e components of the product are not listed or exempt from listing on the inventor | e governing country(s) y administered by the governing | |

country(s).

16. Other information, including date of preparation or last revision

| Issue date Version # | 03-02-2015 01 |
|-------------------------|---|
| Disclaimer | The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |
| Revision Information | Physical and chemical properties: Appearance |