

Indu-Tek Multi-Clean Spray – Aerosol
Part Number: ML-61700

1. IDENTIFICATION OF THE SUBSTANCE/ USE/ COMPANY DETAILS

Trade Name: Multi-Clean Spray
Company Identification: Brit-Lube Limited
Units 2 & 3 Mayfield Industrial Estate
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Type of product: Aerosol Spray
Use: Cleaner / Degreaser

2. HAZARDS IDENTIFICATION

Classification under CLP: H222; Extremely Flammable Aerosol
H229; Pressurised container may burst if heated
Label elements:
Signal word: Danger
Hazard Statements: H222; Extremely Flammable Aerosol
H229; Pressurised container may burst if heated
H413; May cause long lasting harmful effects to aquatic life
H315; May cause skin irritation
Pictograms: GHS02: Flame
GHS07: Causes skin irritation
GHS09: Hazardous to aquatic environment



Precautionary statements: P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50°C
P251: Do not pierce or burn, even after use
P210: Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking
P211: Do not spray on an open flame or other sources of ignition
P271: Use outdoors in well ventilated area
P501: Dispose of contents/ container to local / national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

| Chemical Name | CAS No./ EC No./ Reg. No | Classification (1272/2008/EC) | Content |
|---|--|---|---------|
| HYDROCARBONS, C6, ISOALKANES, <5% n-HEXANE | 64742-49-0 931-254-9 01-2119484651-34- xxxx | Asp. Tox. 1 H304, Flam. Liq. 2 H225, STOT SE 3 H336, Skin Irrit. 2 H315, Aquatic Acute 2 H401 Aquatic Chronic 2 H411 | 30-50% |
| PROPAN-2-OL | 67-63-0 200-661-7 01-2119457558-25- xxxx | Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336 | 10-30% |
| LIQUEFIED PETROLEUM GAS (contains <0.1% 1,3-butadiene) | 68476-85-7 270-704-2 - | Flam.Gas 1; H220 Gas under pressure; H280 | 30-50% |

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES

4.1

| | |
|---------------------|---|
| Inhalation | Use in a well ventilated area. |
| Skin Contact | Wash skin thoroughly with mild soap and water. Obtain medical attention if discomfort continues |
| Eye Contact | Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists. |
| Ingestion | Do not induce vomiting. Obtain medical attention |

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin and eyes with prolonged contact.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE FIGHTING MEASURES

| | |
|---------------------------------------|--|
| Extinguishing Media | Alcohol resistant foam, Powder, Sand, carbon dioxide |
| Unsuitable extinguishing media | Do not use high pressure water |
| Surrounding Fires | Use water spray to cool containers |
| Specific Hazards | Under fire conditions, hazardous fumes will be present |
| Protection for Fire-Fighters | Do not enter fire area without Proper Protective Equipment, including respiratory equipment. |
| Special procedures | Exercise caution when entering any lubricant or chemical fire. |

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

GENERAL

Ensure there is adequate ventilation. Avoid all unnecessary exposure to naked flames or potential fire risks. No Smoking.

STORAGE

Store in tightly sealed containers, away from heat, sparks, open flames. Store in cool, dry well ventilated areas.

HANDLING

Ensure prompt removal from eyes, skin, clothing. Wash hands and other exposed areas with mild soap and water before you eat, drink or smoke, leave work. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

| Chemical name | 8hr TWA | 15min STEL | Reference |
|--|---------------------------------|----------------------------------|--------------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 1400 mg/m ³ /362 ppm | - | Manufacturer |
| Propan-2-ol | 999 mg/m ³ /400 ppm | 1250 mg/m ³ /500 ppm | EH40/2005 |
| Liquefied petroleum gas | 1750 mg/m ³ /1000ppm | 2810 mg/m ³ /1250 ppm | EH40/2005 |

| | |
|---------------------------------------|--|
| DNEL (workers) | Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| Chronic systemic effects (dermal) | 13964 mg/kg bw/day |
| Chronic systemic effects (inhalation) | 5306 mg/m ³ |

| | |
|------------------------------------|--|
| DNEL (consumers) | Hydrocarbons, C6, isoalkanes, <5% n-hexane |
| Chronic systemic effects (dermal) | 1377 mg/kg bw/day |
| Chronic local effects (inhalation) | 1137m ³ |

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Unlikely to be necessary in normal circumstances; if vapour levels are high, wear a respirator conforming to EN 140 with type A filter or better.

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin and body protection: Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes. Use PPE that is chemically resistant to the product and prevents skin contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------------|
| State and colour | Aerosol emitting colourless spray. |
| Odour | Paraffinic/Alcoholic |
| Odour Threshold | No data available |
| Flammability | Extremely flammable |
| Flash point | $<0^{\circ}\text{C}$ |
| Lower explosion limit | 0.8% |
| Upper explosion limit | 12.0% |
| Explosive properties | Not explosive |
| Thermal decomposition | No data available |
| Auto-ignition temperature | $>230^{\circ}\text{C}$ |
| Oxidising properties | Non-oxidising |
| Solubility in water | Partially soluble |
| Solubility in other solvents | Soluble in most organic solvents. |
| pH | Not applicable |
| Melting point/range | No data available |
| Boiling point/range | No data available |
| Relative density | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Viscosity (kinematic) | No data available |
| Evaporation rate | No data available |

9.1 Other information

| | |
|-------------|------|
| VOC Content | 100% |
|-------------|------|

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Hazardous decomposition products | Combustion will generate smoke, carbon monoxide, carbon dioxide |
| Hazardous reactions | None under normal conditions. |
| Hazardous properties | None under normal conditions. |
| Materials to avoid | Strong oxidizing agents, strong acids, strong alkalis |
| Conditions to avoid | Naked flames, fires |

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity

| Chemical name | Oral (LD50) | Inhalation (LC50) | Dermal (LD50) |
|--|-------------------|---------------------|----------------------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | >5840 mg/kg (Rat) | >25.2 mg/l (Rat) 4h | >2920 mg/kg (Rabbit) |
| Propan-2-ol | >2000 mg/kg (Rat) | No data available | >2000 mg/kg (Rabbit) |
| Liquefied petroleum gas | Not applicable | >20mg/l (Rat) 4h | Not applicable |

| | |
|---|--|
| Skin corrosion/irritation: | C6 Hydrocarbon: Moderately irritating with prolonged exposure. Propan-2-ol: Not classed as a skin irritant. |
| Serious eye damage/eye irritation: | C6 Hydrocarbon: May cause mild, transient discomfort. Propan-2-ol: Causes eye irritation. |
| Respiratory or skin sensitisation: | C6 Hydrocarbon: Not expected to be a sensitiser. Propan-2-ol: Not classed as a respiratory or skin sensitizer. |
| Repeated dose toxicity: | C6 Hydrocarbon: Not expected to be a hazard. Propan-2-ol: Tests on rats over prolonged periods have shown both weight gains and losses, increased weight of the liver and some liver damage. |
| Carcinogenicity: | C6 Hydrocarbon: Not carcinogenic. Propan-2-ol: Not carcinogenic. |
| Mutagenicity: | C6 Hydrocarbon: Not mutagenic. Propan-2-ol: Not mutagenic. |
| Toxicity for reproduction: | C6 Hydrocarbon: Not expected to be a hazard. Propan-2-ol: Not toxic for reproduction. |
| Specific target organ toxicity (STOT): | C6 Hydrocarbon: May cause drowsiness or dizziness. Propan-2-ol: vapour in high concentrations can cause irritation of the respiratory system and eyes; drowsiness and dizziness. Ingestion can cause nausea and vomiting at higher doses. |

Further information

The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

| Chemical name | Species | Test | Value |
|--|---------------|----------|------------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Daphnia | EC50 48h | 3 mg/l |
| | Rainbow trout | LL50 96h | >13.4 mg/l |
| | Algae | EC50 72h | 29 mg/l |
| Propan-2-ol | Daphnia | EC50 48h | >100 mg/l |
| | Golden ide | LC50 48h | >100 mg/l |
| | Algae | EC50 72h | >100 mg/l |

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and chronic effects would not be observed in practice.

12.2 Persistence and degradability

C6 Hydrocarbon: Expected to be readily biodegradable.
Propan-2-ol: Readily biodegradable.

12.3 Bioaccumulative potential

C6 Hydrocarbon: Not determined.
Propan-2-ol: Not expected to bioaccumulate.

12.4 Mobility in soil

C6 Hydrocarbon: Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater.
Propan-2-ol: soluble in water and migrate through soil.

12.4 Results of PBT and vPvB assessment

C6 Hydrocarbon, Propan-2-ol: Contain no PBT or vPvB substances.

12.5 Other adverse effects

None expected.

13. DISPOSAL CONSIDERATIONS

General

Dispose of in a safe manner in accordance with local/national regulations

Disposal method

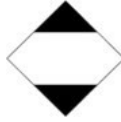
In accordance with local/national regulations may be taken to waste disposal site.

Disposal of used packaging


Use a licensed waste disposal contractor.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

| | | |
|--|-------------------------|--|
| 14.1 UN number | ADR/RID/ADN; IMDG; ICAO | 1950 |
| 14.2 UN proper shipping name | AEROSOLS | |
| 14.3 Transport hazard class(es) | ADR/RID/ADN Class | 2, 5F |
| | ADR/RID/ADN Class | Class 2, Gases |
| | ADR Label No. | 2.1 |
| | IMDG Class | 2 |
| | ICAO Class/Division | 2 |
| | ICAO Subsidiary risk | 2.1 |
| | Transport labels |  |
| 14.4 Packing Group | ADR/RID/ADN; IMDG; ICAO | Not applicable for aerosols |
| 14.5 Environment hazards | Marine Pollutant | Not applicable for aerosols. |
| 14.6 Special precautions for user | EMS | F-D, S-U |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | Not applicable for aerosols. |

15. REGULATORY INFORMATION – Safety, Health & Environmental Regulations

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments, health and environmental regulations/legislation specific for the substance or mixture (continued)

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

Product Use: For Industrial use only. Cleaner/ Degreaser

Other information:

The contents and format are in accordance with the following directives:

Globally Harmonised System of Classification and labelling of Chemicals (GHS). In the EU the worldwide GHS System is implemented by CLP Regulation (EC) No 1272/2008 and conforms to Commission Regulation (EU) No.453/2010

Compiled in accordance with REACH

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 2; 11).

SE: Single exposure (Section 2)

TWA: Time-weighted average. (Section

8). STEL: Short-term exposure limit.

(Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

DISCLAIMER OF LIABILITY:

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user. The conditions of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared solely for the product stated and should not be used for any other product.

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