Safety Data Sheet

According to 1907/2006/EC, Article 31 REACH

Warton Metals Limited
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Certificate Number 1711
ISO 9001

WARTON METALS LIMITED

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

1.1. Product Identifier

Product Name	Total Clean Advance Aerosol Cleaner (400ml)

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

Description	Flux residue remover

1.3. Details of the supplier of the safety data sheet

Company	Warton Metals Limited
Address	Grove Mill Commerce Street Haslingden Lancashire BB4 5JT England
Web	www.warton-metals.co.uk
Telephone	01706 218888
Fax	01706 221188
Email	sales@warton-metals.co.uk
Email of competent person	sds@warton-metals.co.uk

1.4. Emergency telephone number

Emergency Telephone Number	+44(0)1706 218888 (8am-5pm Monday-Friday)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification- EC No 1272/2008	Flam. Aerosol 1: H222; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066; -: H229; Skin Irrit. 2: H315
Most important adverse effects	Repeated exposure may cause skin dryness or cracking. Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label Elements EC 1272/2008 (CLP/GHS)

GHS Symbols	 GHS02 GHS07 **Signal Word: Danger** **Contains UN 1219 Isopropyl Alcohol** **ALIPHATIC HYDROCARBON SOLVENT BLEND** **Liquified Petroleum Gas Propellant**
Hazard Statements	EUH066: Repeated exposure may cause skin dryness or cracking. H222: Extremely flammable aerosol H229: Pressurised container: May burst if heated H315: Causes skin irritation H319: Causes serious eye irritation H336: May cause drowsiness or dizziness
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 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 vapours. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

2.3. Other hazards

Other hazards:	In use, may form flammable / explosive vapour-air mixture.
PBT:	This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/Information on ingredients

3.1. This material is defined as a mixture
67/548/EEC/1999/45/EC

Chemical Name	CAS No	EC No.	REACH Registration Number	Conc.(%w/w)	CLP
Isopropanol (Propan-2-ol)	67-63-0	200-661-7	01-2119457558-25-XXXX	30-50	Eye irrit.2 H319 Flam. Liq.2 H225 STOT SE 3 H336
Hydrocarbons, C11-C13, Isoalkanes, Low Aromatics	-	926-141-6	01-2119456620-43-XXXX	10-30	Asp. Tox. 1 H304 EUH066
Propane, <0.1% 1,3 Butadiene	74-98-6	200-827-9	01-2119486944-21-XXXX	10-30	Flam. Gas 1 H220 Press. Gas H280
Butane, <0.1% 1,3 Butadiene	106-97-8	203-448-7	01-2119474691-32-XXXX	10-30	Flam. Gas 1 H220 Press. Gas H280

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
Eye contact	Bathe the eye with running water for 15 minutes. Consult a doctor.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Ingestion	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	There may be a feeling of tightness in the chest with shortness of breath.
Eye contact	There may be irritation and redness.
Skin contact	There may be mild irritation at the site of contact.
Ingestion	There may be irritation of the throat.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

	If you feel unwell, seek medical attention. If symptoms persist always call a doctor.

SECTION 5: Firefighting Measures

5.1. Extinguishing Media

	Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

	Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back. Aerosol cans may explode during a fire, giving a high speed projectile.

5.3. Advice for Fire Fighters

	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

	Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. Cover leaking can until the discharge has stopped, before attempting clean-up operations.

6.2. Environmental precautions

	Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

	Do not use equipment in clean-up procedure which may produce sparks. Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Wash the spillage site with large amounts of water.

6.4. reference to other sections

	See section 2,8,13 for further information.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

	Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Precautions for safe storage, including and incompatabilities

	Store in a cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight.

7.3. Specific end use(s)

	To be used as a flux residue remover

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

WEL-Workplace Exposure limits	
Isopropanol (Propan-2-ol)	8 hour TWA: 400 ppm 15 min. STEL: 500 ppm
Hydrocarbons, C11-C13, Isoalkanes, Low Aromatics	8 hour TWA: 1200 mg/cm^3
Propane, <0.1% 1,3 Butadiene	8 hour TWA: Asphyxiating 15 min. STEL: Asphyxiating
Butane, <0.1% 1,3 Butadiene	8 hour TWA: 1450 mg/m^3 15 min. STEL: 1810 mg/m^3

8.2. Exposure Controls

Engineering measures	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory protection	Respiratory protection not required.
Hand protection	Protective gloves.
Eye protection	Safety glasses. Ensure eye bath is to hand.
Skin protection	Protective clothing.

SECTION 9: Information on basic physical and chemical properties

State	Aerosol
Colour	Clear
Odour	Solvents, mixed
pH	No data available
Melting point	-89.5ºC
Freezing point	No data available
Boiling point	82ºC
Flash point	-40ºC
Evaporation rate	Fast
Flammability limits %: Lower	0.8
Flammability limits %: Upper	13.0
Vapour flammability	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat solubility	No data available
Partition coefficient	0.05
Autoignition temperature	460ºC
Viscosity	No data available
Solubility in water	Insoluble
Decomposition Temperature	No data available

9.2. Other Information

Other information	No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

	Stable under recommended transport or storage conditions.

10.2. Stability

	Stable under normal conditions. Stable at room temperature.

10.3. Possibility of Hazardous Reactions

	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

	Heat. Hot surfaces. Sources of ignition. Flames. Direct sunlight.

10.5. Incompatible Materials

	Strong oxidizing agents. Strong acids.

10.6 Hazardous Decomposition Products

	In combustion emits toxic fumes.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Isopropanol (Propan-2-ol)	Oral, RAT, LD50, 4700 mg/kg Oral, RBT, LD50, >2000 mg/kg Vapours, RAT, 4H LC50, 46.5 mg/l
Hydrocarbons, C11-C13, Isoalkanes, Low Aromatics	Dermal, RBT, LD50, >5000 mg/kg Oral, RAT, LD50, >5000 mg/kg Vapours, RAT, 4H LC50, >5000 mg/kg
Relevant hazards for product	Serious eye damage, OPT, Hazardous: calculated STOT – single exposure, -, Hazardous: calculated

Symptoms / routes of exposure

Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Ingestions	There may be irritation of the throat.
Inhalation	There may be a feeling of tightness in the chest with shortness of breath.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity to fish	48H EC50, >100 mg/l
Toxicity to daphnia and other aquatic invertebrates	48H EC50, >100 mg/l Not classified
Toxicity to algae	Not classified

12.2. Persistence and degradability

	Biodegradable

12.3. Bioaccumulative potential

	No bioaccumulation potential

12.4. Mobility in soil

	Readily absorbed into soil. Volatile. Insoluble in water. Floats on water. Vapour is heavier than air.

12.5. Results of PBT and vPvB assessment

	This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

	Negligible ecotoxicity.

SECTION 13: Disposal Considerations

General Information

	Dispose of in compliance with all local and national regulations.

Disposal methods

	This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.

Disposal and Packaging

	Do NOT reuse empty containers. Empty cans must not be burned because of explosion hazard. Empty containers can be sent for disposal and recycling. Recycling/reclamation of metals and metal compounds.

Further Information

	For disposal with the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Waste code number: 16 05 05.

SECTION 14: Transport Information

Hazard Pictograms

	

14.1. UN Number

	UN1950

14.2. UN Proper Shipping Name

	Aerosols, Flammable

14.3. Transport Hazard Class

ADR/RID	5F
IMDG	2
IATA	2.1

14.4. Packing Group

Packing Group	II

14.5. Environmental Hazards

Environmental hazard	No
Marine Pollutant	No

ADR/RID

Hazard ID	-
Tunnel Category	D

IMDG

Ems Code	F-D, S-U

IATA

Packing Instruction (Cargo)	203
Maximum quantity	Max 150 Kilos
Packing Instruction (Passenger)	203
Maximum quantity	75 Kilos

SECTION 15: Regulatory Information

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

15.2 Chemical Safety Assessment – A chemical safety assessment has not been carried out for the mixture.

Regulations	

CLP Regulation EC No. 1272/2008 REACH

SECTION 16: Other Information

Other Information

Phrases used in sections 2 and 3	EUH066: Repeated exposure may cause skin dryness or cracking. H220: Extremely flammable gas. H222: Extremely flammable aerosol. H225: Highly flammable liquid and vapour. H229: Pressurised container: May burst if heated. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.
Legend to abbreviations	LD50 = median lethal dose LC50 = median lethal concentration EC50 = median effective concentration RBT = rabbit

Further Information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.