

Section 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier	TBD
Product Name	NRH Throttle Blade De-Icer
Product Code	Not applicable
Use of the chemical and restrictions on use	
Recommended use	Removal of ice from windscreens and equipment.
Details of the supplier of the product	
Manufacturer/Supplier	Blaster Group Pty Ltd
Address	Unit 30, 8 Victoria Ave Castle Hill, NSW 2154 Australia
Telephone	+61 2 9894 7360
Email:	info@blastergroup.com.au
Emergency phone number	+61 2 9894 7360
	New Zealand 0800 764 766 (National Poison Control Centre)
	Australia (02) 131126 (NSW Poison Control Centre)

Section 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture Classified as hazardous according to Safe Work Australia criteria.

GHS Classification	Flammable Aerosols	Category 1
	Acute Toxicity (oral)	Category 5
	Acute Toxicity (Dermal)	Category 5
	Acute Toxicity (Inhalation)	Category 5
	Skin Corrosion/Irritation	Category 3
	Eye Irritation	Category 2A
	STOT (Single Exposure)	Category 2

EPA Hsno Classification NZ 2.1.2A, 6.1E (oral), 6.1E (dermal), 6.1E (inhalation), 6.3B, 6.4A, 6.9B

Label Elements

Pictograms



Signal Words Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H316	Causes mild skin irritation
H319	Causes serious eye irritation.
H333	May be harmful if inhaled.
H371	May cause damage to organs

Precautionary statements - Prevention

- P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container: Do not pierce or burn, even after use.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Section 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Substance/mixture Mixture

Hazardous Ingredients	CAS No.	Proportion, % m/m
Propan-2-ol	67-63-0	30 - 60
Methanol	67-56-1	< 10
Petroleum Gases, Liquefied	68476-85-7	10 - 30
Other ingredients determined to not be hazardous	-	to 100%

Section 4 – FIRST AID MEASURES

Description of necessary first aid measures

If medical advice is needed, have product container or label at hand.

- Eye contact** Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.
- Inhalation** Product is unlikely to cause any discomfort in normal use. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.
- Skin contact** Direct contact may cause irritation in sensitive individuals. In case of contact, wash skin with plenty of soap and water, remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.
- Ingestion** IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Obtain immediate medical attention. Ingestion is considered unlikely due to product form.
- Symptoms caused by exposure** Prolonged and repeated exposure may cause Irritant effects. Symptoms may include defatting of the skin and dermatitis.
- Medical attention, treatment** Provide general supportive measures and treat symptomatically.

Section 5 – FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media** Powder, alcohol resistant foam, water fog, carbon dioxide.
- Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

Specific hazards Contents under pressure. Pressurised container may explode when exposed to heat or flame above 50°C. During fire, gases hazardous to health may be formed. Eliminate all ignition sources.

Protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting instructions Evacuate area and remain upwind. Move containers from fire area if you can do so without risk. Containers should be cooled with water fog to prevent vapour pressure build up. Water runoff can cause environmental damage.

Hazchem Code 2YE
2 - Fine water spray. Y - Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off. E – Evacuation of people in and around the immediate vicinity of the incident should be considered.

General fire hazards Flammable aerosol. Pressurised container.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Clear area of unprotected personnel. Avoid breathing gas. Ventilate area where possible.

Environmental precautions Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up Eliminate all ignition sources. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, soil or similar). Collect and place in suitable containers for disposal.

Other issues relating to spills Clean up in accordance with all applicable regulations.

Section 7 – HANDLING AND STORAGE

Handling Precautions Before use, carefully read the product label. Pressurised container: Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Do not smoke while using. Do not expose containers to heat, flame, sparks, or other sources of ignition.

Avoid breathing spray. Avoid contact with skin. Avoid contact with eyes. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Large storage areas should have appropriate fire protection systems.

Section 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters Follow standard monitoring procedures.

Occupational exposure limits No value assigned for this specific material. However, exposure standards for constituents;

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Material	CAS	TWA, mg/m ³	STEL, mg/m ³
Propan-2-ol	67-63-0	1040	1300
Methanol (*skin)	67-56-1	262	328
Petroleum Gases, Liquefied	68476-85-7	1800	-

(*skin) - Skin absorption may be a significant source of exposure.

Additional Information Wash hands before eating, drinking and smoking. Avoid breathing vapours/spray. In case of inadequate ventilation, wear respiratory protection.

Engineering Controls No controls required when handling small quantities. Use with adequate ventilation.

Where an inhalation risk exists, mechanical explosion-proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back.

Protective Equipment Gloves, safety glasses or chemical goggles and nitrile or neoprene gloves are recommended in an industrial environment. If TWA is exceeded, wear an approved Type A – Class P1 (Organic gases/vapours and particulate) respirator.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state Clear, colourless volatile liquid.

pH Not applicable.

Vapour Density > 1 (Air =1)

Vapour Pressure, kPa 300 - 600

Boiling Point, °C	Not applicable.
Melting Point, °C	Not applicable.
Specific Gravity	Not applicable.
Flash Point, °C	< 0 (propellant)
Explosion Limit, % v/v	LEL 1.2% UEL 9.5%
Autoignition Temp, °C	Not applicable.
Solubility	Miscible in water. Soluble in common organic solvents.

Section 10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures. Polymerisation is not expected to occur. Avoid heat, sparks, open flames and other ignition sources. May evolve carbon oxides and hydrocarbons when heated to decomposition.
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Section 11 – TOXICOLOGICAL INFORMATION

Health Hazard Summary	May be harmful. This product may only have the potential to cause adverse health effects if intentionally misused (e.g. deliberately inhaling contents). Use safe work practices to avoid eye or skin contact and vapour generation – inhalation. Overexposure may result in central nervous system (CNS).
Basis for Assessment	Information given is based on product testing, and/or similar products, and/or components. No LD50 data is available for this product.
Acute Oral Toxicity	Low toxicity: LD50 estimated to be > 3,500 mg/kg (based on calculation of component mixture).
Acute Dermal Toxicity	Low toxicity: LD50 estimated to be > 5,000 mg/kg (based on calculation of component mixture).
Acute Inhalation Toxicity	High concentrations of vapour may cause central nervous system depression resulting in headaches, dizziness and nausea.
Eye Irritation	Vapours may be irritating. Direct contact may result in irritation, lacrimation, pain and redness.
Skin Irritation	May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to rash and dermatitis.
Respiratory Irritation	Overexposure may result in irritation of the nose and throat, coughing and headache. High level exposure may result in nausea, dizziness and drowsiness.
Ingestion	May be harmful. Ingestion is considered unlikely due to product form. Ingestion of large quantities may result in nausea, vomiting, abdominal pain and drowsiness. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.
Sensitisation	Not classified as allergenic. Not expected to be a sensitiser.
Repeated Dose Toxicity	Central nervous system: repeated exposure affects the nervous system. Prolonged contact with product may result in irritant contact dermatitis. Causes damage to organs through prolonged or repeated exposure.
Additional Information	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity	Slightly toxic in aquatic environments.
Mobility	No data available.
Persistence/degradability	Majority of components are expected to be inherently biodegradable. More volatile components expected to degrade rapidly in air.
Bioaccumulation	No data available.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal	Product wastes are considered ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
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Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills.

Container Disposal

Recycle empty container if possible. Dispose of content and container in accordance with local, regional and national regulations.

Section 14 – TRANSPORT INFORMATION

Classified as a dangerous good by the criteria of the ADG code



ADG	Land Transport (ADG)	Sea Transport (IMDG / IMO)	Air Transport (IATA / ICAO)
UN Number	1950	1950	1950
UN Proper Shipping Name	AEROSOLS	AEROSOLS	AEROSOLS
Transport Hazard Class	2.1	2.1	2.1
Packing Group	None allocated	None allocated	None allocated
Subsidiary Risk	None	None	None

Environmental Hazards No information provided.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA - Other Information **Passenger and Cargo Aircraft** Allowed

Marine Pollutant No

EMS F-D, S-U

Section 15 – REGULATORY INFORMATION

National regulations This Material Safety Data Sheet was prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice, Feb 2016, Safe Work Australia

Poisons Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

Inventory Listings **Australia: AICS (Australian Inventory of Chemicals)**
All components are listed on AICS, or are exempt.

EPA NZ Hsno Approval Number HSR002515 Aerosols (Flammable) Group Standard 2006

Section 16 – OTHER INFORMATION

This SDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this SDS in the context of how the user intends to use the product.

End of sds.