FASTENERS NEW ZEALAND

Atorn Weld Spray 400ML

Safety Data Sheet

1. Identification of Substance & Company

Product

Product name
Other names
Weld Spray 400ML
Weld Spray CFC free
Product code
HSNO approval
UN number
Atorn Weld Spray 400ML
Weld Spray 200ML
HSR002515 FEDL
HSR002515

Proper shipping name AEROSOLS (dimethyl ether)

Packaging group NA (Aerosol)

Hazchem code 1T

Poison schedule Not allocated

Uses Used to prevent spatter when welding

Company Details

Company EDL Fasteners LTD
Address 70 Richard Pearse Drive

Mangere, Manukau New Zealand

 Telephone
 +64 9 257 5536

 Fax
 +64 9 257 5844

 Website
 www.edlfast.co.nz

Emergency Telephone Number: 0800-764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (Aerosols (Flammable) Group Standard 2006, Approval HSR002515), and is classified as follows:

Classes Hazard Statements

2.1.2A Extremely flammable aerosol.

Pressurised container: May burst if heated.

6.4A Causes eye irritation.

SYMBOLS

DANGER





Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Read label before use.

Keep away from 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."

Keep out of reach of children.

Wash hands thoroughly after handling.

Wear eye/face protection.

Further precautionary statements can be found in Section 4 – First Aid.



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3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (% w/w)
Dimethyl ether	115-10-6	35-40%
Ingredients not contributing to classification	proprietary	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed, or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

If medical advice is needed, have this SDS, product container or label at hand. . If exposed or concerned: Get medical advice/ attention.

Recommended first aid

Ready access to running water is required. Accessible eyewash is recommended.

facilities

Exposure

Swallowed IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Contact a doctor if you feel

unwell.

Eye contact

Skin contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If symptoms persist, seek medical advice. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

Inhaled

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: This product is a flammable aerosol. This product has the potential to cause fire or to

create an additional hazard during fire.

Suitable extinguishing

Protective equipment:

substances:

Carbon Dioxide, Water jet spray, Chemical powder, foam.

Unsuitable extinguishing

substances:

High volume water jet.

Products of combustion: Product may decompose in a fire and produce toxic or corrosive fumes. Hazardous

decomposition products include carbon oxides, hydrocarbons, toxic pyrolysis products Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

Product Codes: Atorn Weld Spray

and eye protection.

Hazchem code: 1T (recommended, HAZCHEM signage not required)



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Product Codes: Atorn Weld Spray

6. Accidental Release Measures

Containment If greater than 3000L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. Prevent product from entering environment.

Emergency procedures In the event of a large spillage alert the fire brigade to location and give brief description

of hazard. Shut off all possible sources of ignition.

Wear protective equipment to prevent skin, eye and respiratory exposure.

Clear area of any unprotected personnel. Contain spill. Prevent by whatever means

possible any spillage from entering drains, sewers, or water courses.

If spray or gas escapes, increase ventilation.

Clean-up method Collect product and seal in properly labelled containers or drums for disposal. If

contamination of crops, sewers or waterways has occurred advise local emergency

services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapour. Work up wind or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Store in original container. Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep containers tightly closed in a cool, well-ventilated place.

Avoid contact with incompatible substances as listed in Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL
Exposure Stds (2013) WES-TWA No data No data

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.



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Personal Protective Equipment

Eyes

To protect eyes, it is recommended that goggles or safety glasses are worn. Avoid wearing contact lenses.

Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves, e.g. nitrile rubber, NBR gloves. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

Respiratory

A respirator with an organic vapour cartridge when airborne concentrations approach the WES (section 8) should be used. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

No additional information

Physical & Chemical Properties

Appearance Aerosol with dimethyl ether as propellant. Liquid is off white.

Odour faint odour

pН 7.5

pressurised container Vapour pressure

Viscosity no data **Boiling point** no data Volatile materials 85.5% Freezing / melting point no data

Solubility insoluble in water Specific gravity / density 0.84g/cm³ at 20°C Flash point -41°C (propellant) Danger of explosion not explosive

Auto-ignition temperature 350°C

3.0 Vol %, 18.6 Vol % Upper and lower flammable

limits

Corrosiveness not corrosive

10. Stability & Reactivity

Stability This product is thermally stable when stored and used as directed.

Conditions to be avoided Open flames, heat ignition sources. Incompatible groups Strong oxidising agents.

Hazardous decomposition carbon dioxide/carbon monoxide.

products

Hazardous reactions Heating aerosol can result in increase pressure and possible danger of explosion.



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11. Toxicological Information

Summary

IF SWALLOWED: may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

IF IN EYES: spray may be irritating to the eyes.

IF INHALED: may cause headaches, dizziness, drowsiness, nausea and vomiting.

Supporting Data

Acute Oral No evidence of oral toxicity.

Dermal No evidence of dermal toxicity.

Inhaled No data for mixture is available. Inhalation may cause drowsiness or dizziness.

Using LC₅₀'s for ingredients, the estimated LC₅₀ (inhalation, rat) for the mixture is >5,000

ppm. Dimethyl ether: LC₅₀ 164000ppm (rat)

Eye The mixture is considered to be an eye irritant. Dimethyl ether is considered an eye

irritant.

Skin The mixture is not considered to be a skin irritant.

Chronic Sensitisation No data for mixture is available. No ingredient present at concentrations > 0.1% is

considered a sensitizer.

Mutagenicity No data for mixture is available. No ingredient present at concentrations > 0.1% is

considered a mutagen.

Carcinogenicity No data for mixture is available. No ingredient present at concentrations > 0.1% is

considered a carcinogen.

Reproductive / No data for mixture is available. No ingredient present at concentrations > 0.1% is

Developmental considered a reproductive or developmental toxicant or have any effects on or via

lactation.

Systemic No data for mixture is available. No ingredient present at concentrations > 1% is

considered a target organ toxicant.

Aggravation of existing conditions

None known.

12. Ecological Data

Summary

This mixture is not considered ecotoxic.

Supporting Data

Aquatic No data for mixture is available. The estimated EC_{50} for the mixture is > 100 mg/L.

Bioaccumulation No data.

Degradability Not applicable.

Soil No data available for the mixture.

Terrestrial vertebrate This product is not considered harmful to terrestrial vertebrates. No LC₅₀ (diet) data for

ingredients are available and the classification is based on the LD₅₀ (oral) – see section

11 – oral toxicity.

Terrestrial invertebrate

The mixture is not considered harmful to terrestrial invertebrates.

Biocidal Not applicable



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13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with the requirements of the Resource Management

Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packagingSend empty aerosol can to landfill or similar. Do not puncture or incinerate.

14. Transport Information

New Zealand Land Transport:

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: 1950 **Proper shipping name:** AEROSOLS (dimethyl ether)

Class(es): 2.1 Packing group: Not applicable

Precautions: Flammable aerosol, Hazchem code: 1T

IMDG:

UN number: 1950 **Proper shipping name:** AEROSOLS (dimethyl ether)

Class(es)2.1Packing group:Not applicablePrecautions:Flammable aerosol,EMS:F-D, S-U

IATA:

UN number: 1950 **Proper shipping name:** AEROSOLS (dimethyl ether)

Class(es) 2.1 Packing group: Not applicable

Precautions: Flammable aerosol, Guide number: 203

15. Regulatory Information

This product has been transferred to HSNO (Group standards), ERMA approval code:, Aerosols (Flammable) Group Standard 2006, HSR002515)

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing >10L.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 3000L is stored.

Approved handler Required if > 3000L is handled or stored. (Flammable aerosol)

Tracking Not required.

Bunding and secondary containment Required if > 3000L is stored. Signage Required if > 3000L is stored. Location test certificate Required if > 3000L is stored.

Flammable zone Must be established if > 3000L is stored in any one location.

Fire extinguisher If > 3000L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.



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16. Other Information

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

EPA approval code:, Aerosols (Flammable) Group Standard 2006, HSR002515) Controls, **Approval Code**

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical Ceiling

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16). Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test EC₅₀

population (e.g. daphnia, fish species)

ERMA Environmental Risk Management Authority (now EPA) **EPA** Environmental Protection Agency (previously known as ERMA)

Emergency action code of numbers and letters that provide information to emergency **HAZCHEM Code**

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

 LD_{50} Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population LC₅₀

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

Short Term Exposure Limit - The maximum airborne concentration of a chemical or **STEL**

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

Time Weighted Average – generally referred to WES averaged over typical work day **TWA**

(usually 8 hours) Upper Explosive Limit **United Nations Number**

Workplace Exposure Standard - The airborne concentration of a biological or chemical WES

agent to which a worker may be exposed.

References

UN Number

HEL

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html , for specific

EPA Transfer Gazettes

Controls Matrix

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)

Part of the EPA New Zealand User Guide to the HSNO Control Regulations

The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ **WES 2013**

and available on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

Review

Date Reason for review January 2010 Not applicable - new SDS

update: ERMA to EPA, OSH to Worksafe NZ, update of section 11 and 12, review of October 2015

classification. Transport section.

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

