Safety Data Sheet DIISOPROPYLAMINE (DIPA)

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SECTION 1: Identification

GHS Product identifier

Product name	DIISOPROPYLAMINE (DIPA)

Other means of identification

Diisopropylamine LR (DIPA)	DL176
Diisopropylamine TG (DIPA)	DT176

Recommended use of the chemical and restrictions on use

Industrial, laboratory chemical.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1
- Flammable liquids, Cat. 2
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4

- Skin corrosion/irritation, Cat. 1B

GHS label elements, including precautionary statements

Pictograms

Signal word	**Danger**

Hazard statement(s)

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physcian
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use agents recommended in Section 5 of SDS for extinction
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 101.1

Components

Component	CAS no.	Concentration
DIISOPROPYLAMINE (EC no.: 203-558-5; Index no.: 612-129-00-5)	**108-18-9**	**<= 100 % (weight)**
CLASSIFICATIONS: Flammable liquids, Cat. 2; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1B. HAZARDS: H225 - Highly		

flammable liquid and vapor; H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage; H332 - Harmful if inhaled. [SCLs/M-factors/ATEs]: STOT SE 3; H335: C ≥ 5 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.
In case of skin contact	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Foam, dry powder, carbon dioxide, water spray, sand.

Unsuitable Extinguishing Media: Do not use heavy water stream.

Exercise caution when fighting any chemical fire. Avoid fire-fighting water from entering environment.
Caution: Use of water spray when fighting fire may be inefficient.
Small fire
• Use foam, dry chemical, CO2 or water spray.
Large fire
• Use foam, fog or water spray – Do not use water jets – If safe to do so, move undamaged containers from fire area.
• Cool containers with flooding quantities of water until well after fire is out.
• Avoid getting water inside containers.

Specific hazards arising from the chemical
Under fire conditions, hazardous fumes will be present. Thermal decomposition generates corrosive vapours.

Special protective actions for fire-fighters
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
Wear protective clothing specified for normal operations (see Section 8)
Extinguish or remove all sources of ignition and stop leak if safe to do so. Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed, labelled container
Use appropriate containment to avoid environmental contamination.

Methods and materials for containment and cleaning up
ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50 m – All equipment used in handling the product must be earthed.
- Do not touch or walk through spilled material.
- Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.
- Vapour-suppressing foam may be used to control vapours – Water spray may be used to knock down or divert vapour clouds.
- Absorb with earth, sand or other non-combustible material.
- Use clean, non-sparking tools to collect material and place it in looselycovered metal or plastic containers for later disposal.
- SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

SECTION 7: Handling and storage

Precautions for safe handling
Handle empty containers with care because residual vapours are flammable. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours or spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. No naked flames. No smoking.

Conditions for safe storage, including any incompatibilities
Keep only in the original container in a cool, well-ventilated place. Keep in fireproof place. Do not store in corrodable metal. Keep container tightly closed. Ground/bond container and receiving equipment.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection
Clean impervious clothing should be worn. Clothing for protection against
chemicals should comply with AS 3765 Clothing for Protection Against Hazardous
Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless liquid.
Color	No data available.
Odor	Amine-like odour.
Odor threshold	No data available.
Melting point/freezing point	-61°C.
Boiling point or initial boiling point and boiling range	84°C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit/flammability limit	Explosion Limit - Upper: 8.50% Explosion Limit - Lower: 1.10%
Flash point	2°C
Explosive properties	No data available.
Auto-ignition temperature	3160°C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	67 hPa at 20°C
Evaporation rate	No data available.
Density and/or relative density	Density: 0.722 g/cm3
Relative vapor density	3.49
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Risk of ignition. Vapours may form explosive mixtures with air

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates corrosive vapours.

Conditions to avoid
Direct sunlight, extremely high or low temperatures, open flames and incompatible materials.

Incompatible materials
Strong acids. Strong bases.

Hazardous decomposition products
No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Ingestion: Harmful if swallowed. Abdominal cramps. Burning sensation. Nausea. Shock or collapse.

Inhalation: Harmful if inhaled. Corrosive to respiratory tract. Danger of serious damage to health by prolonged exposure through inhalation.

Skin corrosion/irritation
Causes severe skin burns. Swallowing a small quantity of this material will fesult in serious health hazard.

Serious eye damage/irritation
Causes severe eye damage. Redness. Pain. Blurred vision. Severe deep burns.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available.

Specific target organ toxicity (STOT) - repeated exposure
No data available.

Aspiration hazard

No data available.

Additional information
No data available.

SECTION 12: Ecological information

Persistence and degradability
Biodegradable.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
UN Number: 1158
Class: 3, 8
Packing Group: II
Proper Shipping Name: DIISOPROPYLAMINE

Hazchem emergency action code (EAC)
•3WE

IMDG
UN Number: 1158
Class: 3, 8
Packing Group: II
EMS Number:
Proper Shipping Name: DIISOPROPYLAMINE

IATA
UN Number: 1158
Class: 3, 8
Packing Group: II
Proper Shipping Name: DIISOPROPYLAMINE

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)