

SAFETY DATA SHEET

Monensin Solution

| Section 1. Identifi | Section 1. Identification | | | | | |
|--|---|--|--|--|--|--|
| Product identifier | : Monensin Solution | | | | | |
| Product code | : Not available. | | | | | |
| Other means of identification | : Not available. | | | | | |
| Product type | : Liquid. | | | | | |
| Relevant identified uses of t | the substance or mixture and uses advised against | | | | | |
| Product use | : Research. | | | | | |
| Area of application | : Industrial applications. | | | | | |
| Supplier/Manufacturer | : BioLegend Inc. 9727 Pacific Heights Blvd. San Diego, CA 92121 – USA Tel: +1-858-455-9588 | | | | | |
| e-mail address of person responsible for this SDS | : cs@biolegend.com | | | | | |
| Emergency telephone number (with hours of operation) | : +1-858-455-9588 (7:00AM – 5:00PM PT, M-F) | | | | | |
| Section 2. Hazard(s) identification | | | | | | |

| | 、 <i>/</i> | | | |
|--|---|---|--|--|
| Classification of the substance or mixture | : H226 H319 | FLAMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A | | |
| GHS label elements | | | | |
| Hazard pictograms | | | | |
| Signal word | : WARNING | • | | |
| Hazard statements | : H226 - Flammable liquid and vapour. H319 - Causes serious eye irritation. | | | |
| Precautionary statements | | | | |
| Prevention | P210 - Keep a sources. No si P241 - Use ex equipment. P242 - Use or P243 - Take p P233 - Keep o | protective gloves. Wear eye or face protection. away from heat, hot surfaces, sparks, open flames and other ignition moking. cplosion-proof electrical, ventilating, lighting and all material-handling ally non-sparking tools. precautionary measures against static discharge. container tightly closed. hands thoroughly after handling. | | |

Section 2. Hazard(s) identification

| Response | P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. |
|-----------------------------|--|
| Storage | : P403 - Store in a well-ventilated place. P235 - Keep cool. |
| Disposal | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : Not applicable. |

Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

| Substance/mixture | : Mixture |
|----------------------------------|------------------|
| Other means of identification | : Not available. |

| Ingredient name | % (w/w) | CAS number |
|-----------------|-----------|------------|
| ethanol | ≥30 - ≤60 | 64-17-5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessary firs | <u>t aid measures</u> |
|-------------------------------|--|
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

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Section 4. First aid measures

| Most important symptoms/e | ffects, acute and delayed |
|-------------------------------|--|
| Potential acute health effect | <u>zts</u> |
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Defatting to the skin. May cause skin dryness and irritation. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/symp | <u>toms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation dryness cracking |
| Ingestion | : No specific data. |
| | |
| Indication of immediate med | lical attention and special treatment needed, if necessary |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

See toxicological information (Section 11)

Section 5. Firefighting measures

| J | 8 |
|--|--|
| Extinguishing media | |
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Hazchem code | : •2Y |
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Section 6. Accidental release measures

| Personal precautions, protect | tiv | e equipment and emergency procedures |
|--------------------------------|-----|--|
| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Methods and material for con | ta | inment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

| Precautions for safe handlin | ng | | | | | | |
|--|-------|--|---|---|---|--|----------------------------|
| Protective measures | : | Avoid con only with a inadequat ventilated compatible heat, spar (ventilating Take prec | propriate personal prote tact with eyes, skin and adequate ventilation. W e. Do not enter storage . Keep in the original co e material, kept tightly cl ks, open flame or any o g, lighting and material h cautionary measures aga duct residue and can be | clothing. Avoid breat ear appropriate respir areas and confined s intainer or an approve losed when not in use ther ignition source. In andling) equipment. ainst electrostatic disc | hing vapour or m ator when ventila paces unless ad d alternative ma . Store and use Jse explosion-pr Use only non-sp charges. Empty of | hist. Use ation is equately de from a away fro oof elect arking to | a om trical pols. |
| Advice on general occupational hygiene | : | handled, s eating, dri equipmen | inking and smoking sho stored and processed. W nking and smoking. Re t before entering eating n on hygiene measures. | Norkers should wash move contaminated c areas. See also Sect | hands and face lothing and prote | before ective | 3 |
| Conditions for safe storage, including any incompatibilities | : | area. Sto ventilated drink. Elir container opened m | ccordance with local reg re in original container p area, away from incomp minate all ignition source tightly closed and sealed ust be carefully resealed habelled containers. Us | rotected from direct s patible materials (see es. Separate from oxi d until ready for use. d and kept upright to p | unlight in a dry, of Section 10) and dizing materials. Containers that I prevent leakage. | cool and food and Keep nave bee Do not | well- d en |
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Section 7. Handling and storage

contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | | Exposure limits | | |
|-------------------------------------|---|---|--|--|
| ethanol | | Safe Work Australia (Australia, 1/2014). TWA: 1880 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. | | |
| Appropriate engineering controls | ventilation or other engineering co contaminants below any recomme | n. Use process enclosures, local exhaust ontrols to keep worker exposure to airborne ended or statutory limits. The engineering controls dust concentrations below any lower explosive ation equipment. | | |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | | | |
| Individual protection measu | es | | | |
| Hygiene measures | : Wash hands, forearms and face the eating, smoking and using the lave Appropriate techniques should be | horoughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. re reusing. Ensure that eyewash stations and orkstation location. | | |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. | | | |
| Skin protection | | | | |
| Hand protection | be worn at all times when handling this is necessary. Considering the check during use that the gloves a should be noted that the time to be different for different glove manufa | oves complying with an approved standard should g chemical products if a risk assessment indicates e parameters specified by the glove manufacturer, are still retaining their protective properties. It reakthrough for any glove material may be acturers. In the case of mixtures, consisting of n time of the gloves cannot be accurately | | |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. | | | |
| Other skin protection | | litional skin protection measures should be performed and the risks involved and should be andling this product. | | |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. | | | |

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Section 9. Physical and chemical properties

| Appearance | |
|--|---|
| Physical state | : Liquid. |
| Colour | : Clear. Colourless. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| рН | : Not available. |
| Melting point | : Not available. |
| Boiling point | : 92.222°C (198°F) |
| Flash point | : Closed cup: 23.889°C (75°F) |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not applicable. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Relative density | : Not available. |
| Solubility | : Soluble in the following materials: cold water and hot water. |
| Partition coefficient: n- octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Not available. |
| Flow time (ISO 2431) | : Not available. |
| | |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|---|------------|------------------------|--------------|
| ethanol | LC50 Inhalation Dusts and mists LD50 Oral | Rat Rat | 124700 mg/m³ 7 g/kg | 4 hours - |

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|--|-------------|
| ethanol | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Eyes - Severe irritant | Rabbit | - | 500 milligrams | - |

| Conclusion/Summary | |
|---------------------------|--------------------------------|
| Skin | : Not available. |
| Eyes | : Not available. |
| Respiratory | : Not available. |
| Sensitisation | |
| Conclusion/Summary | |
| Skin | : Not available. |
| Respiratory | : Not available. |
| Mutagenicity | |
| Conclusion/Summary | : Not available. |
| Carcinogenicity | |
| Conclusion/Summary | : Not available. |
| Reproductive toxicity | |
| Conclusion/Summary | : Not available. |
| Teratogenicity | |
| Conclusion/Summary | : Not available. |
| Specific target organ tox | <u>icity (single exposure)</u> |
| Not available. | |

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

| Information on likely routes of exposure | : | Routes of entry anticipated: Oral, Dermal, Inhalation. |
|--|---|---|
| Potential acute health effects | | |
| Eye contact | : | Causes serious eye irritation. |
| Inhalation | : | No known significant effects or critical hazards. |
| Skin contact | : | Defatting to the skin. May cause skin dryness and irritation. |
| Ingestion | : | No known significant effects or critical hazards. |

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Section 11. Toxicological information

| | — |
|--------------------------|--|
| Symptoms related to the | physical, chemical and toxicological characteristics |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation dryness cracking |
| Ingestion | : No specific data. |
| Delayed and immediate of | effects as well as chronic effects from short and long-term exposure |
| Short term exposure | |
| Potential immediate | : Not available. |

| : Not available. |
|--|
| : Not available. |
| |
| : Not available. |
| : Not available. |
| ects |
| |
| : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| : No known significant effects or critical hazards. |
| |

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

| Result | Species | Exposure | |
|--------------------------------------|---|--|--|
| Acute EC50 17.921 mg/l Marine water | Algae - Ulva pertusa | 96 hours | |
| Acute EC50 2000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours | |
| Acute LC50 25500 µg/l Marine water | Crustaceans - Artemia franciscana - Larvae | 48 hours | |
| Acute LC50 42000 µg/l Fresh water | Fish - Oncorhynchus mykiss | 4 days | |
| Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa | 96 hours | |
| Chronic NOEC 100 ul/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days | |
| Chronic NOEC 0.375 ul/L Fresh water | Fish - Gambusia holbrooki - Larvae | 12 weeks | |
| | Acute EC50 17.921 mg/l Marine water Acute EC50 2000 µg/l Fresh water Acute LC50 25500 µg/l Marine water Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water | Acute EC50 17.921 mg/l Marine water Acute EC50 2000 µg/l Fresh water Acute LC50 25500 µg/l Marine water Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water Chronic NOEC 0.375 ul/L Fresh waterAlgae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franciscana - Larvae Fish - Oncorhynchus mykiss Algae - Ulva pertusa Daphnia - Daphnia magna - Neonate | |

Section 12. Ecological information

Conclusion/Summary

: Not available.

Persistence and degradability

| Conclusion/Summary | : Not available. | | | |
|-------------------------|-------------------|------------|------------------|--|
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability | |
| ethanol | - | - | Readily | |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| ethanol | -0.35 | - | low |

Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc) | |

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | ADG | ADR/RID | IMDG | ΙΑΤΑ |
|-------------------------------|------------------|------------------|------------------|------------------|
| UN number | UN1170 | UN1170 | UN1170 | UN1170 |
| UN proper shipping name | ETHANOL SOLUTION | ETHANOL SOLUTION | ETHANOL SOLUTION | Ethanol solution |
| Transport hazard class(es) | 3 | 3 | 3 | 3 |
| Packing group | Ш | 111 | 111 | 111 |
| Environmental hazards | No. | No. | No. | No. |

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Section 14. Transport information

Additional information ADG : Hazchem code •2Y Special provisions 144, 223 ADR/RID ŝ, Hazard identification number 30 Limited quantity 5 L Special provisions 144, 601 Tunnel code (D/E) IMDG : Emergency schedules F-E, S-D Special provisions 144, 223 ΙΑΤΑ Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: ŝ 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -Passenger Aircraft: 10 L. Packaging instructions: Y344. Special provisions A3, A58, A180 **Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according : Not available. to Annex II of Marpol and

the IBC Code

Section 15. Regulatory information

| Standard Uniform Schedule of Medicine and Poisons |
|---|
| Not regulated. |
| Model Work Health and Safety Regulations - Scheduled Substances |
| No listed substance |
| Australia inventory (AICS) : All components are listed or exempted. |
| International regulations |
| Chemical Weapon Convention List Schedules I, II & III Chemicals |
| Not listed. |
| <u>Montreal Protocol (Annexes A, B, C, E)</u> |
| Not listed. |
| Stockholm Convention on Persistent Organic Pollutants |
| Not listed. |
| Rotterdam Convention on Prior Informed Consent (PIC) |
| Not listed. |
| UNECE Aarhus Protocol on POPs and Heavy Metals |
| Not listed. |

Section 16. Any other relevant information

| <u>History</u> | | | | | |
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| Prepared by | : Sphera S | olutions | | | |
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Section 16. Any other relevant information

| Key to abbreviations | : ADG = Australian Dangerous Goods |
|----------------------|---|
| - | ADR = The European Agreement concerning the International Carriage of |
| | Dangerous Goods by Road |
| | ATE = Acute Toxicity Estimate |
| | BCF = Bioconcentration Factor |
| | GHS = Globally Harmonized System of Classification and Labelling of Chemicals |
| | IATA = International Air Transport Association |
| | IBC = Intermediate Bulk Container |
| | IMDG = International Maritime Dangerous Goods |
| | LogPow = logarithm of the octanol/water partition coefficient |
| | MARPOL = International Convention for the Prevention of Pollution From Ships, |
| | 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| | SUSMP = Standard Uniform Schedule of Medicine and Poisons |
| | UN = United Nations |

Procedure used to derive the classification

| | Classification | Justification | |
|---|---|---|--|
| Flam. Liq. 3, H226 Eye Irrit. 2A, H319 | | On basis of test data Calculation method | |
| References | Preparation of Safety Dat Work Australia | Regulations 2011, as ammended a Sheets for Hazardous Chemicals, Code of Practice, Safe ransport of Dangerous Goods by Road and Rail (ADG), hission | |

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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