Date of issue/ Date of revision 24.03.2015 Date of previous issue 15.08.2013

Version 2.0



SAFETY DATA SHEET

Anhydrous Ammonia

Section 1. Identification

Product name Anhydrous Ammonia Other means of identification ammonia, anhydrous Product type gas (Liquefied gas.)

Product code PA01HL

ADG Class AMMONIA, ANHYDROUS

Uses

Area of application Industrial applications, Professional applications

Manufacture of fertilizers and technical ammonium nitrate. Material uses

Supplier

Supplier's details YARA PILBARA FERTILISERS PTY LTD

Address

Street Level 5, 182 St Georges Terrace

Postal code 6000 City Perth Country Australia

Telephone number +61 8 9183 4000 Fax no. +61 8 9185 6776

e-mail address of person

Info.yara.pilbara@yara.com responsible for this SDS

Emergency telephone number

(with hours of operation)

1800 117 506 (24 HRS)

National advisory body/Poison Center

Name **WA Poisons Information Centre**

Telephone number 131126

Hours of operation 24 hours, within Australia only

Section 2. Hazards identification

Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.

Classification of the substance :

or mixture

FLAMMABLE GASES - Category 2

GASES UNDER PRESSURE - Liquefied gas ACUTE TOXICITY (INHALATION) - Category 3 SKIN CORROSION/IRRITATION - Category 1B AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 2

GHS label elements

Hazard pictograms









Signal word : Danger

Hazard statements : Flammable gas.

Contains gas under pressure; may explode if heated.

Toxic if inhaled.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Wear protective gloves/clothing and eye/face protection. Do

not breathe gas or vapour.

Response : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Storage: Protect from sunlight and store in well-ventilated place.

Classification according to Directive 67/548/EEC [DSD]

Classification : R10

T, R23 C, R34 N, R50/53

Risk phrases : R10 - Flammable.

R23 - Toxic by inhalation. R34 - Causes burns.

R50/53 - Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Statement of

hazardous/dangerous nature

HAZARDOUS SUBSTANCE.

DANGEROUS GOODS.

Anhydrous ammonia is classified for physicochemical hazards and specified as dangerous in the Australian code for Transport of dangerous Goods by Road and rail (ADG code) 6th edition.

Other hazards which do not

result in classification

Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

CAS number/other identifiers

Other means of identification : ammonia, anhydrous

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CAS number : 7664-41-7 **EC number** : 231-635-3

| Product / ingredient name | Identifiers | % |
|---------------------------|----------------|----------|
| ammonia, anhydrous | CAS: 7664-41-7 | >=99.5 - |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Remark : 99.5 % (wt/wt) anhydrous ammonia, remainder water

Chemical formula : NH3

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water for at least 15

minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes. Get medical attention immediately.

Ingestion: As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Corrosive to eyes. Causes burns. Liquid can cause burns

similar to frostbite.

Inhalation: Toxic by inhalation. May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact: Corrosive to the skin. Causes burns. Dermal contact with

rapidly evaporating liquid could result in freezing of the tissues

or frostbite.

Ingestion : May cause burns to mouth, throat and stomach. Ingestion of

liquid can cause burns similar to frostbite.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

frostbite (Cryogenic burn)

Inhalation : Adverse symptoms include the following:

coughing

wheezing and breathing difficulties

asthma

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Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur frostbite (Cryogenic burn)

Ingestion : Adverse symptoms may include the following:

frostbite (Cryogenic burn)

Indication of immediate medical 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to

be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing

it, or wear gloves.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, allow gas to burn if flow cannot be shut off

immediately. Use an extinguishing agent suitable for the surrounding fire. Apply water from a safe distance to cool

container and protect surrounding area.

None identified.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Hazchem Code: ZRE. Contains gas under pressure.

Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst or explode. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or

drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

nitrogen oxides

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Special protective actions for

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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. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is

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impossible, withdraw from area and allow fire to burn. Fight fire

Special protective equipment for fire-fighters

from protected location or maximum possible distance.

Eliminate all ignition sources if safe to do so.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Accidental releases pose a serious fire or explosion hazard. 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized 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

Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Small spill

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Do not breathe gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate

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Advice on general occupational hygiene

container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Australian Standard AS 2022: Anhydrous ammonia storage and handling. Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--------------------|--|
| ammonia, anhydrous | NOHSC (1995-05-01) Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. 24 mg/m3, 35 ppm NOHSC (1995-05-01) Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week. 17 mg/m3, 25 ppm |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation 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 measures

Hygiene measures

A washing facility or water for eye and skin cleaning purposes

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should be present.

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 or dusts. If inhalation hazards exist, a full-face respirator may be required instead.

Recommended: full-face mask

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn.

> 8 hours (breakthrough time): butyl rubber, PTFE, Viton

< 1 hour (breakthrough time): Insulated gloves suitable for low

temperatures

Body protection: Personal protective equipment for the body should be selected

based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator

complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator. Recommended: ammonia filter (Type K) self-

contained breathing apparatus (SCBA)

Personal protective equipment

(Pictograms)



Section 9. Physical and chemical properties

Appearance

Physical state : gas [Liquefied gas.]

Color: Colorless.Odor: Pungent.Odor threshold: 5 ppm

pH : Not determined.Melting/freezing point : Decomposes: -78 °C

Boiling/condensation point : -33 °C (27 40-

(27.40-°F)

Sublimation temperature:Not determined.Flash point:Not determined.Evaporation rate:Not determined.Flammability:Not determined.Lower and upper explosive:Lower: 15 %(V)(flammable) limits

Upper: 27 %(V)

Vapor pressure : 8,611 hPa @ 20 °C (68.00 °F)

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Vapor density : 0.6 [Air = 1]

Relative density : 0.682 @ -33.4 °C (28.12- °F)

Solubility : Not determined.

Solubility in water : $510 - 531 \text{ g/l} @ 20 ^{\circ}\text{C} (68.00 ^{\circ}\text{F})$

Partition coefficient: n-

octanol/water

: Not determined.

Auto-ignition temperature : 651 °C (1203.80 °F)

Decomposition temperature : -78 °C (108.40- °F)

Viscosity : Dynamic: 0.22 mPa.s

: Kinematic: Not determined.

Explosive properties : Not determined.

Oxidizing properties : None.

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.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not

pressurize, cut, weld, braze, solder, drill, grind or expose

containers to heat or sources of ignition.

Incompatible materials : Reacts violently with halogens.

Reactive with acids and oxide. Corrosive to galvanized metal.

Corrosive to brass, Cu, Zn, Ag and Hg.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product / ingredient name | Result | Species | Dose | Exposure | References |
|---------------------------|------------|---------|------------|----------|------------|
| ammonia, anhyo | drous | | | | |
| | LC50 | Rat | 9.85 mg/l | 1 h | IUCLID 5 |
| | Inhalation | | | | |
| | LC50 | Rat | 7.939 mg/l | 1 h | IUCLID 5 |
| | Inhalation | | _ | | |

Conclusion/Summary : Toxic by inhalation.

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Irritation/Corrosion

Conclusion/Summary

Skin : Corrosive.

Eyes : Causes serious eye damage.

Respiratory : Corrosive to the respiratory system.

Sensitization

Conclusion/Summary

Skin : Not sensitizing
Respiratory : Not sensitizing

Mutagenicity

Conclusion/Summary : No mutagenic effect.

Carcinogenicity

| Product / ingredient | Result | Species | Dose | Exposure | References |
|-----------------------|--|---------|--------------------|----------|------------|
| name | | | | | |
| ammonia, anhydrous | Negative - Oral - NOAEL 453 Combined Chronic Toxicity/Carcin ogenicity Studies | Rat | 67 mg/kg bw/day | - | IUCLID 5 |

Conclusion/Summary : No carcinogenic effect.

Reproductive toxicity

| Product / ingredient name | Maternal toxicity | Fertility | Development toxin | Species | Dose | Exposure | References |
|---------------------------|-------------------|-----------|-------------------|---------|--|----------|------------|
| ammonia, anhydrous | - | Negative | - | Rat | Oral: 408 mg/kg bw/day OECD 422 | 28 days | IUCLID 5 |
| ammonia, anhydrous | - | - | Negative | Rabbit | Oral: 100 mg/kg bw/day OECD 414 | 28 days | IUCLID 5 |
| ammonia, anhydrous | - | - | Negative | Pig | Inhalat ion: 25 mg/m ³ | 6 weeks | IUCLID 5 |

Conclusion/Summary: No known significant effects or critical hazards.

Teratogenicity

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Conclusion/Summary: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Corrosive to eyes. Causes burns. Liquid can cause burns

similar to frostbite.

Inhalation : Toxic by inhalation. May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Corrosive to the skin. Causes burns. Dermal contact with

rapidly evaporating liquid could result in freezing of the tissues

or frostbite.

Ingestion: May cause burns to mouth, throat and stomach. Ingestion of

liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

frostbite (Cryogenic burn)

Inhalation : Adverse symptoms include the following:

coughing

wheezing and breathing difficulties

asthma

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur frostbite (Cryogenic burn)

Ingestion : Adverse symptoms may include the following:

frostbite (Cryogenic burn)

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

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Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Corrosive to the respiratory tract.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

frostbite (Cryogenic burn)

Inhalation : Adverse symptoms include the following:

coughing

wheezing and breathing difficulties

asthma

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur frostbite (Cryogenic burn)

Ingestion : Adverse symptoms may include the following:

frostbite (Cryogenic burn)

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

| Product / ingredient name | Result | Species | Exposure | References |
|---------------------------|------------------------------------|---------------------------------------|----------|------------|
| ammonia, anhydrous | | | | |
| | Acute LC50 0.89 mg/l Fresh water | Fish - Labeo boga | 96 h | IUCLID 5 |
| | Acute LC50 101 mg/l Fresh water | Aquatic invertebrates Daphnia | 48 h | IUCLID 5 |
| | Acute EC50 2,700 mg/l Fresh water | Aquatic plants - Heterosigma akashiwo | 18 d | IUCLID 5 |
| | Chronic NOEC < | Fish - Ictalurus | 31 d | IUCLID 5 |

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| 0.048 mg/l Fresh water 215 Fish, Juvenile Growth Test | punctatus | | |
|--|-------------------------------|------|----------|
| Chronic NOEC 0.79 mg/l Fresh water | Aquatic invertebrates Daphnia | 96 h | IUCLID 5 |

Conclusion/Summary : Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Persistence/degradability

Conclusion/Summary : The methods for determining the biological degradability

are not applicable to inorganic substances.

Bioaccumulative potential

| Product / ingredient name | LogPow | BCF | Potential |
|---------------------------|--------|-----|-----------|
| ammonia, anhydrous | 0.23 | - | low |

Conclusion/Summary : No known significant effects or critical hazards.

Mobility in soil

Soil/water partition coefficient (KOC)

: Not available.

coefficient (KOC)
Mobility

Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Product

Methods of disposal

The generation of waste should be avoided or minimized 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 non-recyclable 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. Empty pressure vessels should be returned to the supplier. 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

| Regulation: UN Class | |
|------------------------------|--------------------|
| 14.1 UN number | 1005 |
| 14.2 UN proper shipping name | AMMONIA, ANHYDROUS |

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| 14.3 Transport hazard class(es) | 2.3 |
|--|--------|
| 14.4 Packing group | |
| 14.5 Environmental hazards | Yes. |
| 14.6 Additional information Environmental hazards | : Yes. |

| Regulation: IMDG | | |
|---------------------------------|--------------------|--|
| 14.1 UN number | 1005 | |
| 14.2 UN proper shipping name | AMMONIA, ANHYDROUS | |
| 14.3 Transport hazard class(es) | 2.3 | |
| 14.4 Packing group | | |
| 14.5 Environmental hazards | Yes. | |
| 14.6 Additional information | | |
| Marine pollutant | : Yes. | |
| IMDG Code Segregation group | : SG18 | |
| Emergency schedules (EmS) | : F-C, S-U | |

| Regulation: IATA | |
|---|--------------------|
| 14.1 UN number | 1005 |
| 14.2 UN proper shipping name | AMMONIA, ANHYDROUS |
| 14.3 Transport hazard class(es) | 2.3 |
| 14.4 Packing group | |
| 14.5 Environmental hazards | Yes. |
| 14.6 Additional information Marine pollutant | Yes. |

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.

IMSBC : Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Section 15. Regulatory information

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Standard for the Uniform Scheduling of Drugs and Poisons

- SUSDP Poison Schedule 6. Licensing is required.

Model Work Health and Safety Regulations - Scheduled Carcinogens

Not available.

Australia inventory (AICS)

All components are listed or exempted.

EU Classification

R10 T, R23 C, R34 N, R50/53

International lists

Philippines inventory (PICCS): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Korea inventory: All components are listed or exempted. **Japan inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted. Australia inventory (AICS): All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted. Malaysia Inventory (EHS Register): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Safety, health and environmental regulations specific for the product

: No known other specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

Key to abbreviations

 ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

References

: EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

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Anhydrous Ammonia

History

Date of printing: 01.05.2015Date of issue/Date of revision: 24.03.2015Date of previous issue: 15.08.2013

Revision comments : See Section 1 for supplier contact information., National

advisory body/Poison Center

Version : 2.0

Prepared by : Yara Product Classifications & Regulations.

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 above-named 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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