# SAFETY DATA SHEET



ARADUR HY 2954 BD

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : ARADUR HY 2954 BD

Index number: 612-110-00-1EC number: Not available.CAS number: 6864-37-5Product code: 00056673Product description: Not available.Chemical formula: C15-H30-N2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Component used for the manufacture of electrical insulation parts

1.3 Details of the supplier of the safety data sheet

**Supplier**: Huntsman Advanced Materials (Europe)BVBA

Everslaan 45

3078 Everberg / Belgium Tel.: +41 61 299 20 41 Fax: +41 61 299 20 40

e-mail address of person responsible for this SDS

Global\_Product\_EHS\_AdMat@huntsman.com

www.ami-con.co.uk

1.4 Emergency telephone number

**Supplier** 

Telephone number : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

ASIA: +65 6336-6011 China: +86 20 39377888 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1/800/424.9300

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411

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

T; R23/24 Xn; R22 C; R35 N; R51/53

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

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#### **SECTION 2: Hazards identification**

#### 2.2 Label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Toxic in contact with skin.

Toxic if inhaled. Harmful if swallowed.

Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

Prevention : Wear protective gloves: >8 hours (breakthrough time): Ethyl Vinyl Alcohol Laminate

(EVAL), butyl rubber. Wear eye or face protection. Wear protective clothing. Avoid

release to the environment.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF IN EYES:

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Immediately call a POISON CENTER or physician.

Storage : Store locked up.

Disposal : Not applicable.

Supplemental label : Not applicable. elements

**Special packaging requirements** 

Containers to be fitted +44 Not applicable 24726

with child-resistant

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Substance meets the : PBT: No.

criteria for PBT according to Regulation (EC) No.

1907/2006, Annex XIII

Substance meets the criteria for vPvB according to Regulation (EC) No.

1907/2006, Annex XIII

Other hazards which do not result in classification

: vPvB: No.

vP: No. vB: No.

P: No. B: No. T: No.

: Not available.

# **SECTION 3: Composition/information on ingredients**

Substance/mixture : Mono-constituent substance

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### **SECTION 3: Composition/information on ingredients**

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
2,2'-dimethyl- 4,4'methylenebis(cyclohexylamine)	CAS: 6864-37-5 Index: 612-110-00-1	60 - 100	T; R23/24 Xn; R22 C; R35 N; R51/53	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[A]
			See section 16 for the full text of the R- phrases declared above	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

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

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

**Inhalation** 

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. 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.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

est medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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**

**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.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Toxic if inhaled. 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**: Causes severe burns. Toxic in contact with skin.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

# 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : 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**: Symptomatic treatment and supportive therapy as indicated. Following severe

exposure the patient should be kept under medical review for at least 48 hours.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst. 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:

carbon dioxide carbon monoxide nitrogen oxides

#### **5.3 Advice for firefighters**

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# **SECTION 5: Firefighting measures**

Special precautions 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

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective 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. Do not breathe 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".

6.2 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. 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. 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 spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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# SECTION 7: Handling and storage

Advice on general occupational hygiene : 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.

7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 2 to 40°C (35.6 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Storage hazard class **Huntsman Advanced Materials** 

: Storage class 8, Corrosive substances

7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : Not available.

solutions

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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#### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

procedures

**Recommended monitoring**: 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

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.

#### **Individual protection measures**

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# SECTION 8: Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation 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.

**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.

Material of gloves for long term application (BTT>480min):

: Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber

Material of gloves for short term/splash application

: nitrile rubber

(10min<BTT<480min): (BTT = Break Through Time)

> Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at

www.gisbau.de.

**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.

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

In case of inadequate ventilation wear respiratory protection. 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.

**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.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. : Colourless. Colour Odour Slight

: Not available. **Odour threshold** 

11 [Conc. (% w/w): 50%]

Melting point/freezing point Initial boiling point and boiling : 347°C

range

: -7 to -1°C

: Closed cup: 173°C [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)] Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. **Burning time** Not applicable.

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# SECTION 9: Physical and chemical properties

: Not applicable. **Burning rate** 

Upper/lower flammability or

: Lower: 0.5% Upper: 2.8% explosive limits : Not available. Vapour pressure Not available. Vapour density **Relative density** Not available.

Solubility(ies)

Water solubility

20 deg C practically insoluble

Partition coefficient: n-

octanol/water

: 275°C **Auto-ignition temperature** 

: Not available. **Decomposition temperature** 

: Dynamic: 70 to 120 mPa·s 25 Viscosity deg C

**Explosive properties** : Not available. **Oxidising properties** Not available.

9.2 Other information

0.94 to 0.95 g/cm3 [20°C (68°F)] **Density** 

# **SECTION 10: Stability and reactivity**

No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

1322 2247 10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

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Exothermic reaction with strong acids

10.4 Conditions to avoid : No specific data.

: No specific data. 10.5 Incompatible materials

strong acids, strong oxidising agents

Burning produces obnoxious and toxic fumes., Carbon oxides, Nitrogen oxides

10.6 Hazardous

should not be produced. decomposition products

Under normal conditions of storage and use, hazardous decomposition products

**SECTION 11: Toxicological information** 

#### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Endpoint	Species	Result	Exposure

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**SECTION 11: Toxicological information** 

2,2'-dimethyl4,4'methylenebis(cyclohexylamine)
LC50 Inhalation Dusts and mists
LD50 Dermal
Rat
0.42 mg/L
4 hours

4 hours

Rabbit
200 to 400 mg/kg
LD50 Oral
Rat
320 to 460 mg/kg

**Irritation/Corrosion** 

**Conclusion/Summary**: Not available.

**Sensitiser** 

Product/ingredient name	Test	Route of exposure	Species	Result
2,2'-dimethyl- 4,4'methylenebis(cyclohexylamine)	-	skin	Guinea pig	Not sensitizing

**Conclusion/Summary** 

: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Reproductive toxicity** 

**Teratogenicity** 

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

: Not available.

routes of exposure

Potential acute health effects

Information on the likely

Inhalation : Toxic if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to

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the respiratory system. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

**Ingestion**: Harmful if swallowed. May cause burns to mouth, throat and stomach.

**Skin contact**: Causes severe burns. Toxic in contact with skin.

**Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

**Ingestion**: Adverse symptoms may include the following:

stomach pains

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

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

**Short term exposure** 

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# **SECTION 11: Toxicological information**

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

#### Potential chronic health effects

**Conclusion/Summary**: Not available.

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.

Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test	Endpo	int	Exposure	Species	Result	
2,2'-dimethyl- 4,4'methylenebis(cyclohexylamine)	ASVIII	Acute	EC50	72 hours	Algae	2.1	mg/L
		Acute	EC50	48 hours	Daphnia	15.2	mg/L
	-	Acute	IC50	17 hours	Bacteria	96	mg/L
+ 4	4 (O) 1300 004704 L v	Acute	LC50	96 hours	Fish	22 to 46	mg/L

#### 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2,2'-dimethyl- 4,4'methylenebis(cyclohexylamine)	2.51	-	low

#### 12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : PBT: No.

P: No. B: No. T: No.

vPvB: No.

vP: No. vB: No.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

#### 12.7 Other ecological information

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# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

**Hazardous waste** 

Yes.

### **European waste catalogue (EWC)**

Waste code	Waste designation
07 02 04*	other organic solvents, washing liquids and mother liquors

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

# 14.1 UN number+ 4.14.2 UN proper shipping name www.ami-con.co.uk

ADR/RID UN2922 Corrosive liquid, toxic, n.o.s. 3,3'-DIMETHYL-4,4'-DIAMINO DICYCLO

HEXYLMETHANE (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine))

ADN/ADNRUN2810 TOXIC LIQUID, ORGANIC, N.O.S. (2,2'-dimethyl-

4,4'methylenebis(cyclohexylamine))

IMDG UN2922 Corrosive liquid, toxic, n.o.s. (3,3'-DIMETHYL-4,4'-DIAMINO DICYCLO

HEXYLMETHANE) (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine)). Marine

pollutant (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine))

IATA UN2922 Corrosive liquid, toxic, n.o.s. (3,3'-DIMETHYL-4,4'-DIAMINO DICYCLO

HEXYLMETHANE) (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine))

	ADR/RID	ADN/ADNR	IMDG	IATA
14.3 Transport	8 (6.1)	6.1	8 (6.1)	8 (6.1)
hazard class(es)				
	¥2		¥2	¥2
14.4 Packing group	1	II	I	I
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

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**SECTION 14: Transport information** 

14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	Hazard identification number 886  Special provisions 274  Tunnel code C/D	-	Emergency schedules (EmS) F-A, S-B	Passenger and Cargo Aircraft Quantity limitation: 0.5 L Packaging instructions: 807 Cargo Aircraft Only Quantity limitation: 2.5 L Packaging instructions: 809

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

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Annex XVII - Restrictions 4: Not applicable 24726 | www.ami-con.co.uk

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

**Other EU regulations** 

**Europe inventory**: This material is listed or exempted.

Black List Chemicals : Not listed
Priority List Chemicals : Not listed
Integrated pollution : Not listed

prevention and control list (IPPC) - Air

list (IPPC) - Air

: Not listed

Integrated pollution prevention and control list (IPPC) - Water

National regulations

References : The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the

recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

International regulations

Chemical Weapons
Convention List Schedule I

: Not listed

Chemicals

Chemical Weapons
Convention List Schedule II

Chamicala

**Chemicals** 

: Not listed

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SECTION 15: Regulatory information

**Chemical Weapons** 

**Convention List Schedule III** 

**Chemicals** 

: Not listed

15.2 Chemical Safety

: Not available.

**Assessment** 

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302	Expert judgment
Acute Tox. 3, H311	Expert judgment
Acute Tox. 3, H331	On basis of test data
Skin Corr. 1A, H314	Expert judgment
Eye Dam. 1, H318	Expert judgment
Aquatic Chronic 2, H411	Expert judgment

Full text of abbreviated H

statements

: H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

+44 H318 3 Causes serious eye damage.

H331 Toxic if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 3, H311 ACUTE TOXICITY: SKIN - Category 3 Acute Tox. 3, H331 ACUTE TOXICITY: INHALATION - Category 3

Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4

Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2

Eve Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A

Full text of abbreviated R

phrases

R23/24- Toxic by inhalation and in contact with skin.

R22- Harmful if swallowed. R35- Causes severe burns.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

T - Toxic C - Corrosive Xn - Harmful

N - Dangerous for the environment

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#### **SECTION 16: Other information**

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