

Ident-No: ARADUR HY 2966

Version 2
Revision Date 28.01.2004

Print Date 28.02.2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information

Trade name : ARADUR HY 2966

Use : Hardener for electro applications

Company : Huntsman Advanced Materials (Europe)BVBA
Everslaan 45
3078 Everberg / Belgium

Telephone : +41619661599
Telefax : +41619661589
Emergency telephone number : +41 61 966 40 00 (in France ORFILA : +33(0)145425959)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Accelerated aliphatic amine preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
trimethylhexamethylenediamine EC-No.: 247-134-8	25620-58-0	C	R22 R34 R43 R52/53	>= 60.00 - <= 72.00
4,4'-isopropylidenediphenol EC-No.: 201-245-8	80-05-7	Xi	R36/37/38 R43	>= 30.00 - < 42.00

3. HAZARDS IDENTIFICATION

Harmful if swallowed.
Causes burns.
May cause sensitization by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation : Move to fresh air.
If symptoms persist, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Call a physician immediately.

Skin contact : Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
If skin irritation persists, call a physician.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).
If a person vomits when lying on his back, place him in the recovery position.

Ident-No: ARADUR HY 2966

Version 2
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Oxygen or artificial respiration if needed.
Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.
Carbon dioxide (CO₂).
Foam.
Dry powder.
- Extinguishing media which must not be used for safety reasons : High volume water jet.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.
Do not breathe vapours/dust.
- Environmental precautions : Prevent product from entering drains.
Do not contaminate surface water.
Avoid subsoil penetration.
- Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.
Ensure adequate ventilation.
Handle and open container with care.

Storage

- Further information on storage conditions : Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Store at room temperature in the original container.
- Storage hazard class : Storage class 8, Corrosive substances
- Huntsman Advanced Materials

Ident-No: ARADUR HY 2966

Version 2
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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Engineering measures

No special precautions required.

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Eye protection : Tightly fitting safety goggles.
Face-shield.
- Hand protection : rubber or plastic gloves
- Skin and body protection : Protective suit.
Safety shoes.
- Protective measures : Do not breathe vapours/dust.
Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : yellow
- Odour : ammonia
- pH : 11.3
at (20 °C)
1:1 in water
- Boiling point : > 200 °C
- Thermal decomposition : > 200 °C
- Flash point : > 200 °C
Method: DIN 51758 (Pensky-Martens Closed Cup)
- Vapour pressure : 0.8 Pa
at 20 °C
- Density : 0.96 - 0.97 g/cm³
at 25 °C
- Water solubility : Note: miscible

Ident-No: ARADUR HY 2966

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Miscibility with water : miscible
Viscosity, dynamic : 300 - 600 mPa.s
at 25 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Take necessary action to avoid static electricity discharge.
Materials to avoid : Strong acids and strong bases.
Strong oxidizing agents.
Hazardous decomposition products : Carbon oxides.
Nitrogen oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: approx. 1,500 mg/kg
Eye irritation : Corrosive
rabbit
Skin irritation : Corrosive
rabbit
dermal
Sensitization : Causes sensitization.
guinea pig
dermal

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Further information on ecology

Additional ecological information : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Container : Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Ident-No: ARADUR HY 2966

Version 2
Revision Date 28.01.2004

Print Date 28.02.2004

Product : Waste Key Number: 070204
Must be incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

Land transport

ADR:

UN-No: 2327
Class: 8
Classification code: C7
Packaging group: III
Risk No.: 80
ADR/RID-Labels: 8
Proper shipping name: TRIMETHYLHEXAMETHYLENEDIAMINE SOLUTION

RID:

UN-No: 2327
Class: 8
Packaging group: III
Risk No.: 80
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Sea transport

IMDG:

UN-No: 2327
Class: 8
Packaging group: III
ADR/RID-Labels: 8
MFAG:
EmS: F-A S-B
Proper shipping name: TRIMETHYLHEXAMETHYLENEDIAMINES SOLUTION

Air transport

IATA-DGR:

UN/ID No.: UN 2327
Class: 8
Packaging group: III
Packing instruction (cargo aircraft): 820
Max. Qty/Pack.: 60.00 L
(999.00 = No limit)
Packing instruction (passenger aircraft): 818
Max. Qty/Pack.: 5.00 L
(999.00 = No limit)
ADR/RID-Labels: 8
Proper shipping name: TRIMETHYLHEXAMETHYLENEDIAMINES SOLUTION

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15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s):	: C	Corrosive
R-phrase(s)	: R34 R22 R43 R52/53	Causes burns. Harmful if swallowed. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S26 S36/37/39 S45	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Hazardous components which must be listed on the label	: trimethylhexamethylenediamine EC-No.: 247-134-8	

National legislation

Notification status

16. OTHER INFORMATION

List of R-phrases (Section 2)

R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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. Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

Ident-No: ARADUR HY 2966

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