

SAFETY DATA SHEET



ARALDITE KIT 680 CI

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

Identification of the substance or mixture

Product name : ARALDITE KIT 680 CI
Product type : Liquid.
Product description : Working pack (preparation)
Use of the substance/mixture : 2-Component adhesive system

Supplier : Huntsman Advanced Materials (Europe)BVBA
Everslaan 45
3078 Everberg / Belgium
Tel.: +41 61 299 20 41
Fax: +41 61 299 20 40

Emergency 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

For further Product EHS related questions concerning this document or its contents, please contact :

E-Mail: global_product_ehs_admat@huntsman.com

2. HAZARDS IDENTIFICATION

Refer to SDS for individual components of the pack.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Working pack (preparation)

Refer to SDS for individual components of the pack.

4. FIRST AID MEASURES

Refer to SDS for individual components of the pack.

5. FIRE-FIGHTING MEASURES

Refer to SDS for individual components of the pack.

6. ACCIDENTAL RELEASE MEASURES

Refer to SDS for individual components of the pack.

7. HANDLING AND STORAGE

Handling : Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the

Date of issue/Date of revision : 11/5/2010.

1/5

7. HANDLING AND STORAGE

material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

Storage

- : 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. 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

Packaging materials

Recommended

- : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

diethylenetriamine

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.

TWA: 4.3 mg/m³ 8 hour(s).

TWA: 1 ppm 8 hour(s).

Refer to SDS for individual components of the pack.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Liquid. [Paste.]

Important health, safety and environmental information

Flash point : Closed cup: >100°C (>212°F)

Density : 1.5 to 1.6 g/cm³

10. STABILITY AND REACTIVITY

Refer to SDS for individual components of the pack.

11. TOXICOLOGICAL INFORMATION

Refer to SDS for individual components of the pack.

12. ECOLOGICAL INFORMATION

Refer to SDS for individual components of the pack.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

- : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Date of issue/Date of revision

: 11/5/2010.

2/5

13. DISPOSAL CONSIDERATIONS

European waste catalogue (EWC) : The relevant EU Directives and local, regional and national regulations must be complied with. It is among the tasks of the end user to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste catalogue. It is recommended that the details be agreed with the waste disposer responsible.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations

Proper shipping name

ADR : Amines, liquid, corrosive, n.o.s. TRIMETHYLHEXAMETHYLENEDIAMINES DIETHYLENE TRIAMINE ISOPHORONE DIAMINE (2-piperazin-1-ylethylamine)

IMDG : Amines, liquid, corrosive, n.o.s. (TRIMETHYLHEXAMETHYLENEDIAMINES) (ISOPHORONE DIAMINE) (DIETHYLENE TRIAMINE) (). Marine pollutant (Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700),)

IATA : Amines, liquid, corrosive, n.o.s. ()

Regulatory information	UN number	Classes	Packing group	Label	Additional information
Land - road/ railway ADR/RID Class	UN2735	8	III	 	Classification code C7 Hazard identification number 80
Sea IMDG Class	UN2735	8	III	 	Emergency schedules (EmS) F-A, S-B Marine pollutant
Air IATA Class	UN2735	8	III	 	Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 818 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 820

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



C, N Corrosive, Dangerous for the environment

Date of issue/Date of revision : 11/5/2010.

3/5

15. REGULATORY INFORMATION

- Risk phrases** : R68- Possible risk of irreversible effects.
R34- Causes burns.
R43- May cause sensitisation by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases** : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
- Contains** : reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)
o-cresyl glycidyl ether
isophorone diamine
2-piperazin-1-ylethylamine

International regulations**International lists**

- Europe inventory** : All components are listed or exempted.
- United States inventory (TSCA 8b)** : All components are listed or exempted.
- Canada inventory** : All components are listed or exempted.
- Australia inventory (AICS)** : All components are listed or exempted.
- China inventory (IECSC)** : All components are listed or exempted.
- Japan inventory (ENCS)** : Not determined.
- Philippines inventory (PICCS)** : All components are listed or exempted.

16. OTHER INFORMATION

- Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R68- Possible risk of irreversible effects.
R62- Possible risk of impaired fertility.
R63- Possible risk of harm to the unborn child.
R22- Harmful if swallowed.
R20/22- Harmful by inhalation and if swallowed.
R21/22- Harmful in contact with skin and if swallowed.
R34- Causes burns.
R41- Risk of serious damage to eyes.
R37- Irritating to respiratory system.
R38- Irritating to skin.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52- Harmful to aquatic organisms.
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : Muta. Cat. 3 - Mutagen category 3
Repr. Cat. 3 - Toxic to reproduction category 3
C - Corrosive
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

References

Epoxy Resins and Curing Agents; Toxicology, Health, Safety and Environmental Aspects (Plastics Europe, May 2006)

Date of issue/Date of revision : 11/5/2010.**4/5**

16. OTHER INFORMATION

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).

History

Date of printing : 11/5/2010.

Date of issue/ Date of revision : 11/5/2010.

Date of previous issue : 7/12/2010.

Version : 1

☑ Indicates information that has changed from previously issued version.

Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

Enquiries should be addressed to your nearest Huntsman sales office or to:

Huntsman Belgium (BVBA)
Everslaan 45
B-3078 Everberg
Belgium
Tel.:+32-(0)2-758-9211

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.