## **SAFETY DATA SHEET**



ARALDITE® 2028-1 GB POLYOL

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

| 1.1 Product identifier                            |   |
|---|---|
| Product name                                      | : ARALDITE® 2028-1 GB POLYOL  |
| Product code                                      | : 00070282  |
| Product description                               | :   |
| 1.2 Relevant identified uses of                   | of the substance or mixture and uses advised against  |
| Product use                                       | : Polyol for adhesive systems   |
| 1.3 Details of the supplier of                    | the safety data sheet   |
| Supplier  | : Huntsman Advanced Materials (Europe)BVBA<br>Everslaan 45<br>3078 Everberg / Belgium<br>Tel.: +41 61 299 20 41<br>Fax: +41 61 299 20 40  |
| e-mail address of person responsible for this SDS | : Global_Product_EHS_AdMat@huntsman.com   |
| 1.4 Emergency telephone nu                        | mber  |
| <u>Supplier</u>                                   |   |
| Telephone number                                  | : EUROPE: +32 35 75 1234<br>France ORFILA: +33(0)145425959<br>ASIA: +65 6336-6011<br>China: +86 20 39377888<br>Australia: 1800 786 152<br>New Zealand: 0800 767 437<br>USA: +1/800/424.9300 |

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

| Product definition              | : Working pack (preparation)                                       |
|---------------------------------|--|
| Classification according to     | Directive 1999/45/EC [DPD]   |
| The product is not classified   | as dangerous according to Directive 1999/45/EC and its amendments. |
| Classification                  | : Not classified.  |
| See Section 16 for the full tex | t of the R phrases or H statements declared above.                 |
| See Section 11 for more detail  | led information on health effects and symptoms.                    |
|                                 |  |
| 2.2 Label elements              |  |
| Hazard symbol or symbols        | :  |
| Indication of danger            | :  |
| Risk phrases                    | : This product is not classified according to EU legislation.      |
| Safety phrases                  | : Not applicable.  |
| Hazardous ingredients           | 1 · · · · · · · · · · · · · · · · · · ·                            |
| Supplemental label elements     | : Not applicable.  |
| Special packaging requirem      | <u>ents</u>  |

| ARALDITE 2028-1 GB POLYC                                      | DL                 |          |            | 2/11 |
|---|--------------------|----------|------------|------|
| Date of printing  | : 17 November 2011 | MSDS no. | : 00070282 |      |
| Date of issue   | : 17 November 2011 | Version  | : 1.01     |      |
| SECTION 2: Hazards  | identification     |          |            |      |
| Containers to be fitted<br>with child-resistant<br>fastenings | : Not applicable.  |          |            |      |
| Tactile warning of danger                                     | : Not applicable.  |          |            |      |
| 2.3 Other hazards   |                    |          |            |      |
| Other hazards which do not result in classification           | : Not available.   |          |            |      |

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

Substance/mixture

: Working pack (preparation)

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

#### 4.1 Description of first aid measures

| Eye contact                | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|----------------------------|---|---|
| Inhalation                 | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur.  |
| Skin contact               | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| Ingestion                  | : | Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders | 1 | No action shall be taken involving any personal risk or without suitable training.  |

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

| Potential acute health ef  | fects   |
|----------------------------|---|
| Eye contact                | : No known significant effects or critical hazards.   |
| Inhalation                 | : No known significant effects or critical hazards.   |
| Skin contact               | : No known significant effects or critical hazards.   |
| Ingestion                  | : No known significant effects or critical hazards.   |
| Over-exposure signs/sy     | nptoms  |
| Eye contact                | : No specific data.   |
| Inhalation                 | : No specific data.   |
| Skin contact               | : No specific data.   |
| Ingestion                  | : No specific data.   |
| 4.3 Indication of any imme | ediate medical attention and special treatment needed   |
| Notes to physician         | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled.                                |
| 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. |

Date of issue / Date of revision : 17 November 2011

| ARALDITE 2028-1 GB POLY                                    | OL           |   |  | 3/1  |
|--|--------------|---|--|--|
| Date of printing   | : 17         | November 2011   | MSDS no.   | : 00070282   |
| Date of issue  | : 17         | November 2011   | Version  | : 1.01   |
| SECTION 5: Firefight                                       | ting         | measures  |  |  |
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : U          | se an extinguishing a   | gent suitable for the surro  | unding fire.   |
| Unsuitable extinguishing media                             | : N          | one known.  |  |  |
| 5.2 Special hazards arising f                              | rom t        | he substance or mix   | ture   |  |
| Hazards from the substance or mixture                      | : Ir         | a fire or if heated, a  | pressure increase will occ   | ur and the container may burst.  |
| Hazardous thermal decomposition products                   | C:<br>C:     | ecomposition product<br>arbon dioxide<br>arbon monoxide<br>letal oxide/oxides | s may include the followin   | ng materials:  |
| 5.3 Advice for firefighters                                |              |   |  |  |
| Special precautions for<br>fire-fighters                   | th           |   |  | ns from the vicinity of the incident if<br>any personal risk or without suitabl  |
| Special protective<br>equipment for fire-fighters          | b<br>rr<br>c | reathing apparatus (S<br>ode. Clothing for fire                               | CBA) with a full face-piece<br>fighters (including helmet                            | equipment and self-contained<br>e operated in positive pressure<br>ts, protective boots and gloves)<br>ovide a basic level of protection for |
| SECTION 6: Acciden   | tal r        | elease measu  | es   |  |
| 6.1 Personal precautions, pr                               | otecti       | ve equipment and e  | mergency procedures  |  |
| For non-emergency<br>personnel                             | E<br>e       | vacuate surrounding a   | areas. Keep unnecessary  | isk or without suitable training.<br>and unprotected personnel from<br>erial. Put on appropriate personal                                    |
| For emergency responders                                   | in           | specialised clothing is<br>formation in Section 8<br>dditional information c  | 3 on suitable and unsuitab   | spillage, take note of any le materials. See also Section 8 for  |
| 6.2 Environmental<br>precautions                           | а            |   | e relevant authorities if the  | ontact with soil, waterways, drains<br>product has caused environmenta   |
| 6.3 Methods and materials fo                               | or cor       | tainment and cleani   | ng up  |  |
| Small spill  | :S<br>u<br>m | top leak if without risk<br>o if water-soluble. Alt                           | . Move containers from s<br>ernatively, or if water-insol<br>appropriate waste dispo | pill area. Dilute with water and mor<br>luble, absorb with an inert dry<br>sal container. Dispose of via a                                   |

Large spill : Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor.

| 6.4 Reference to other sections | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment. |
|---------------------------------|---|
|                                 | See Section 13 for additional waste treatment information.  |

licensed waste disposal contractor.

Wellmid Electronics (Shenzhen) Co., Ltd. Web: www.wellmid.com Email: wellmid@wellmid.com Tel: 86-755-28168941 Fax: 86-755-22648848

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK) |                    |          |            |  |  |
|---|--------------------|----------|------------|--|--|
| ARALDITE 2028-1 GB  | POLYOL             |          | 4/1        |  |  |
| Date of printing  | : 17 November 2011 | MSDS no. | : 00070282 |  |  |
| Date of issue   | : 17 November 2011 | Version  | : 1.01     |  |  |
|   |                    |          |            |  |  |

### **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 har                                     | ndling  |
|--|---|
| Protective measures  | : Put on appropriate personal protective equipment (see Section 8).   |
| Advice on general<br>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 18°C (35.6 to 64.4°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<br>Huntsman Advanced<br>Materials           | : Storage class 12, Liquids, not dangerous  |
| 7.3 Specific end use(s)  |   |
| Recommendations  | : Not available.  |
| Industrial sector specific solutions                             | : Not available.  |

## **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).

#### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

**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 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

Date of issue / Date of revision : 17 November 2011

4/11

| ARALDITE 2028-1 GB POLY  | ′OL  |   | 5/1   |
|--|--|---|---|
| Date of printing   | : 17 November 2011   | MSDS no.  | : 00070282  |
| Date of issue  | : 17 November 2011   | Version   | : 1.01  |
| SECTION 8: Exposu  | re controls/perso  | nal protection  |   |
| Appropriate engineering controls   | control worker exposing redients with expo                       | sure to airborne contaminant<br>osure limits, use process en    | ral ventilation should be sufficient to<br>ts. If this product contains<br>closures, local exhaust ventilation o<br>sure below any recommended or |
| Individual protection meas   |  |   |   |
| Hygiene measures   | eating, smoking and<br>Appropriate techniqu<br>Wash contaminated | using the lavatory and at the<br>les should be used to remov    | ve potentially contaminated clothing<br>sure that eyewash stations and  |
| Eye/face protection  |  |   | ndard should be used when a risk<br>exposure to liquid splashes, mists  |
| Skin protection  |  |   |   |
| Hand protection  |  |   | g with an approved standard should<br>ducts if a risk assessment indicate   |
| Material of gloves for<br>long term application<br>(BTT>480min):   | : butyl rubber, Ethyl V  | inyl Alcohol Laminate (EVAL                                     | _)  |
| Material of gloves for<br>short term/splash<br>application<br>(10min <btt<480min):< td=""><td>: nitrile rubber, neopre</td><td>ne.</td><td></td></btt<480min):<> | : nitrile rubber, neopre   | ne.   |   |
| (BTT = Break Through Time)   |  |   |   |
|  | Suitability and durab  | ility of a glove is dependent c<br>chemical resistance of glove | EN 374 (Europe), F739 (US).<br>on usage, e.g. frequency and<br>e material and dexterity. Always see<br>on can be found for instance at            |
| Body protection  |  | the risks involved and shou                                     | Id be selected based on the task<br>Id be approved by a specialist  |
| Other skin protection  | selected based on th   |   | tection measures should be<br>I the risks involved and should be<br>oduct.  |
| Respiratory protection   | must be based on kr  |   | y protection. Respirator selection e levels, the hazards of the product rator.  |
| Environmental exposure controls  | they comply with the<br>cases, fume scrubbe                      |   |   |

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

| 9.1 Information on basic physic<br>Appearance |                  |
|---|------------------|
| Physical state                                | : Liquid.        |
| Colour  | : Colourless.    |
| Odour   | : Slight         |
| Odour threshold                               | : Not available. |
| рН  | : Not available. |
| Melting point/freezing point                  | : Not available. |

```
Date of issue / Date of revision : 17 November 2011
```

| ARALDITE 2028-1 GB POLYOL                    |                            |           |            | 6/11 |
|--|----------------------------|-----------|------------|------|
| Date of printing :                           | 17 November 2011           | MSDS no.  | : 00070282 |      |
| Date of issue :                              | 17 November 2011           | Version   | : 1.01     |      |
| <b>SECTION 9: Physical a</b>                 | and chemical pro           | perties   |            |      |
| Initial boiling point and boilin range       | g : Not available.         |           |            |      |
| Flash point                                  | : Closed cup: >100°C       | ,<br>,    |            |      |
| Evaporation rate                             | : Not available.           |           |            |      |
| Flammability (solid, gas)                    | : Not available.           |           |            |      |
| Burning time                                 | : Not applicable.          |           |            |      |
| Burning rate                                 | : Not applicable.          |           |            |      |
| Upper/lower flammability or explosive limits | : Not available.           |           |            |      |
| Vapour pressure                              | : Not available.           |           |            |      |
| Vapour density                               | : Not available.           |           |            |      |
| Relative density                             | : Not available.           |           |            |      |
| Solubility(ies)                              |                            |           |            |      |
| Water solubility                             | :<br>20 deg C<br>Insoluble |           |            |      |
| Partition coefficient: n-<br>octanol/water   | : Not available.           |           |            |      |
| Auto-ignition temperature                    | : Not available.           |           |            |      |
| Decomposition temperature                    | : Not available.           |           |            |      |
| Viscosity                                    | : Dynamic: 4000 to 5       | 000 mPa⋅s |            |      |
| Explosive properties                         | : Not available.           |           |            |      |
| Oxidising properties                         | : Not available.           |           |            |      |

#### 9.2 Other information

| <b>SECTION 10: Stabilit</b>                | nd reactivity  |         |
|--|--|---------|
| 10.1 Reactivity                            | No specific test data related to reactivity available for this product or its ingred               | dients. |
| 10.2 Chemical stability                    | The product is stable.   |         |
| 10.3 Possibility of<br>hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occ                       | cur.    |
| 10.4 Conditions to avoid                   | No specific data.  |         |
| 10.5 Incompatible materials                | No specific data.  |         |
| 10.6 Hazardous<br>decomposition products   | Under normal conditions of storage and use, hazardous decomposition produs should not be produced. | ucts    |
|  | Burning produces obnoxious and toxic fumes., Carbon oxides, Nitrogen oxide                         | es      |

Date of issue / Date of revision : 17 November 2011

| ARALDITE 2028-1 GB POLY                         | -                            |                           |                     | 7/1 |
|---|------------------------------|---------------------------|---------------------|-----|
| Date of printing                                | : 17 November 2011           | MSDS no.                  | : 00070282          |     |
| Date of issue                                   | : 17 November 2011           | Version                   | : 1.01              |     |
| SECTION 11: Toxico                              | logical information          | l                         |                     |     |
| 11.1 Information on toxicolog                   | gical effects                |                           |                     |     |
| Acute toxicity                                  |                              |                           |                     |     |
| Irritation/Corrosion                            |                              |                           |                     |     |
| Conclusion/Summary                              | : Not available.             |                           |                     |     |
| <u>Sensitiser</u>                               |                              |                           |                     |     |
| Conclusion/Summary                              | : Not available.             |                           |                     |     |
| Mutagenicity                                    |                              |                           |                     |     |
| Conclusion/Summary                              | : Not available.             |                           |                     |     |
| <b>Carcinogenicity</b>                          |                              |                           |                     |     |
| Reproductive toxicity                           |                              |                           |                     |     |
| <b>Teratogenicity</b>                           |                              |                           |                     |     |
| Information on the likely<br>routes of exposure | : Not available.             |                           |                     |     |
| Potential acute health effect                   | <u>ts</u>                    |                           |                     |     |
| Inhalation                                      | : No known significant ef    | ects or critical hazards. |                     |     |
| Ingestion                                       | : No known significant ef    | ects or critical hazards. |                     |     |
| Skin contact                                    | : No known significant ef    | ects or critical hazards. |                     |     |
| Eye contact                                     | : No known significant ef    | ects or critical hazards. |                     |     |
| Symptoms related to the ph                      | ysical, chemical and toxic   | cological characteristics |                     |     |
| Inhalation                                      | : No specific data.          |                           |                     |     |
| Ingestion                                       | : No specific data.          |                           |                     |     |
| Skin contact                                    | : No specific data.          |                           |                     |     |
| Eye contact                                     | : No specific data.          |                           |                     |     |
| Delayed and immediate effe                      | ects and also chronic effect | ts from short and long to | <u>erm exposure</u> |     |
| Short term exposure                             |                              |                           |                     |     |
| Potential immediate<br>effects                  | : Not available.             |                           |                     |     |
| Potential delayed effects                       | : Not available.             |                           |                     |     |
| Long term exposure                              |                              |                           |                     |     |
| Potential immediate<br>effects                  | : Not available.             |                           |                     |     |
| Potential delayed effects                       | : Not available.             |                           |                     |     |
| Potential chronic health eff                    |                              |                           |                     |     |
| Conclusion/Summary                              | : Not available.             |                           |                     |     |
| General   | : No known significant ef    | ects or critical hazards. |                     |     |
| Carcinogenicity                                 | : No known significant ef    |                           |                     |     |
| Mutagenicity                                    | : No known significant ef    |                           |                     |     |
| Teratogenicity                                  | : No known significant ef    |                           |                     |     |
| Developmental effects                           | : No known significant ef    |                           |                     |     |
| Fertility effects                               | : No known significant ef    |                           |                     |     |
| Other information                               | : Not available.             |                           |                     |     |

Date of issue / Date of revision : 17 November 2011

| SECTION 42. E          | ological information             |                          |            |      |
|------------------------|----------------------------------|--------------------------|------------|------|
| Date of issue          | : 17 November 2011               | Version                  | : 1.01     |      |
| Date of printing       | : 17 November 2011               | MSDS no.                 | : 00070282 |      |
| ARALDITE 2028-1 GB     | POLYOL                           |                          |            | 8/11 |
| Conforms to Regulation | on (EC) No. 1907/2006 (REACH), / | Annex II - United Kingdo | m (UK)     |      |

## SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

Not available.

| 12.4 Mobility in soil |                  |
|-----------------------|------------------|
| Soil/water partition  | : Not available. |
| coefficient (Koc)     |                  |
| Mobility              | : Not available. |

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

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

#### 12.7 Other ecological information

## **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.<br>Significant quantities of waste product residues should not be disposed of via the<br>foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus<br>and non-recyclable products via a licensed waste disposal contractor. Disposal of<br>this product, solutions and any by-products should at all times comply with the<br>requirements of environmental protection and waste disposal legislation and any<br>regional local authority requirements. Waste packaging should be recycled.<br>Incineration or landfill should only be considered when recycling is not feasible. This<br>material and its container must be disposed of in a safe way. Empty containers or<br>liners may retain some product residues. Avoid dispersal of spilt material and runoff<br>and contact with coil, waterware, drains and sower. |
|---------------------|---|
|                     | and contact with soil, waterways, drains and sewers.  |

Hazardous waste : Yes.

| Waste code          | Waste designation   |
|---------------------|---|
| 07 02 08*           | other still bottoms and reaction residues   |
| Packaging           |   |
| Methods of disposal | <ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste<br/>packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible.</li> </ul>            |
| Special precautions | This material and its container must be disposed of in a safe way. Empty containers<br>or liners may retain some product residues. Avoid dispersal of spilt material and<br>runoff and contact with soil, waterways, drains and sewers. |

| <b>Conforms to Regulatio</b> | on (EC) No. 1907/2006 (REACH), / | Annex II - United Kingdor | m (UK)     |      |
|------------------------------|----------------------------------|---------------------------|------------|------|
| ARALDITE 2028-1 GB           | POLYOL                           |                           |            | 9/11 |
| Date of printing             | : 17 November 2011               | MSDS no.                  | : 00070282 |      |
| Date of issue                | : 17 November 2011               | Version                   | : 1.01     |      |
|                              |                                  |                           |            |      |

## **SECTION 14: Transport information**

#### 14.1 UN number 14.2 UN proper shipping name

ADR/RID Not regulated.

#### -Not available.

ADN/ADNRNot available.

IMDG Not regulated.

IATA Not regulated.

|                                    | ADR/RID        | ADN/ADNR       | IMDG           | ΙΑΤΑ           |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.3 Transport<br>hazard class(es) | -              | Not available. | -              | -              |
| 14.4 Packing<br>group              | -              | -              | -              | -              |
| 14.5<br>Environmental<br>hazards   | No.            | No.            | No.            | No.            |
| 14.6 Special precautions for user  | Not available. | Not available. | Not available. | Not available. |
| Additional information             | -              | -              | -              | -              |

14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : | Not applicable.                        |
|---|---|--|
| Other EU regulations  |   |  |
| Europe inventory  | 1 | All components are listed or exempted. |
| Black List Chemicals  | 1 | Not listed                             |
| Priority List Chemicals   | : | Not listed                             |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Air   | : | Not listed                             |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Water   | : | Not listed                             |

#### Date of issue / Date of revision : 17 November 2011

| <b>Conforms to Regulatio</b> | n (EC) No. 1907/2006 (REACH), A | Annex II - United Kingdo | m (UK)     |       |
|------------------------------|---------------------------------|--------------------------|------------|-------|
| ARALDITE 2028-1 GB           | POLYOL                          |                          |            | 10/11 |
| Date of printing             | : 17 November 2011              | MSDS no.                 | : 00070282 |       |
| Date of issue                | : 17 November 2011              | Version                  | : 1.01     |       |
|                              |                                 |                          |            |       |

## **SECTION 15: Regulatory information**

| 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<br>Convention List Schedule I<br>Chemicals   | : | Not listed  |
| Chemical Weapons<br>Convention List Schedule II<br>Chemicals  | : | Not listed  |
| Chemical Weapons<br>Convention List Schedule III<br>Chemicals | : | Not listed  |
|   |   |   |

**15.2 Chemical Safety**<br/>Assessment: This product contains substances for which Chemical Safety Assessments are still<br/>required.

## **SECTION 16: Other information**

Г

| Indicates information | on that has changed from previously issued version.                           |
|-----------------------|---|
| Abbreviations and     | : ATE = Acute Toxicity Estimate   |
| acronyms              | 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   |

<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Not classified.

....

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

| Classification                            |                    | Justification |  |  |
|---|--------------------|---------------|--|--|
| Not classified.                           |                    |               |  |  |
| Full text of abbreviated H statements     | : Not applicable.  |               |  |  |
| Full text of classifications<br>[CLP/GHS] | : Not applicable.  |               |  |  |
| Full text of abbreviated R phrases        | : Not applicable.  |               |  |  |
| Full text of classifications<br>[DSD/DPD] | : Not applicable.  |               |  |  |
| MSDS no.                                  | : 00070282         |               |  |  |
| Date of printing                          | : 17 November 2011 |               |  |  |
| Date of issue/ Date of revision           | : 17 November 2011 |               |  |  |
| Date of previous issue                    | : 9/16/2011.       |               |  |  |
| Version                                   | : 1.01             |               |  |  |
| Notice to reader                          |                    |               |  |  |

| Date of printing: 17 November 2011MSDS no.: 00070282 | <b>Conforms to Regulation</b> | n (EC) No. 1907/2006 (REACH), A | Annex II - United Kingdor | n (UK)     |       |
|--|-------------------------------|---------------------------------|---------------------------|------------|-------|
|  | ARALDITE 2028-1 GB            | POLYOL                          |                           |            | 11/11 |
| Date of issue : 17 November 2011 Version : 1.01      | Date of printing              | : 17 November 2011              | MSDS no.                  | : 00070282 |       |
|  | Date of issue                 | : 17 November 2011              | Version                   | : 1.01     |       |

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

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.

ARALDITE® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more countries, but not all countries.

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.