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

1.1 Product identifier
Trade name : ARALDITE® 2018 ISOCYANATE (XD 4445)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : Adhesives and/or sealants

1.3 Details of the supplier of the safety data sheet
Company : Huntsman Advanced Materials (Europe)BVBA
Address : Everslaan 45
          3078 Everberg
          Belgium
Telephone : +41 61 299 20 41
Telefax : +41 61 299 20 40
E-mail address of person responsible for the SDS : Global_Product_EHS_AdMat@huntsman.com
E-mail address to request full REACH registration number upon EU member State Authority request :
Reach_Registration_Nr_AM@huntsman.com

1.4 Emergency telephone
Emergency telephone : Servicio de Información Toxicológica:+ 34 91 562 04 20
                       EUROPE: +32 35 75 1234
                       France ORFILA: +33(0)145425959
                       ASIA: +65 6336-6011
                       China: +86 20 39377888
                       +86 532 83889090
                       India: +91 22 42 87 5333
                       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
Classification (REGULATION (EC) No 1272/2008)
Acute toxicity, Category 4 : H332: Harmful if inhaled.
Skin sensitization, Category 1 : H317: May cause an allergic skin reaction.
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system : H335: May cause respiratory irritation.
2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal Word: Warning

Hazard Statements:
- H332: Harmful if inhaled.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.

Precautionary Statements:

Prevention:
- P280: Wear protective gloves.
- P261: Avoid breathing vapours.
- P272: Contaminated work clothing must not be allowed out of the workplace.

Response:
- P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

Storage:
- P405: Store locked up.

Disposal:
- ENVT12: Dispose of waste product or used containers according to local regulations.

Hazardous ingredients which must be listed on the label:
Hexamethylene diisocyanate, oligomers

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene diisocyanate, oligomers</td>
<td>28182-81-2</td>
<td>500-060-2</td>
<td>Skin Sens. 1; H317</td>
<td>95 - 100</td>
</tr>
<tr>
<td></td>
<td>28182-81-2</td>
<td>500-060-2</td>
<td>Acute Tox. 4; H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>05-2117897788-10-0000</td>
<td>STOT SE 3; H335</td>
<td></td>
</tr>
<tr>
<td>Hexamethylene diisocyanate</td>
<td>822-06-0</td>
<td>212-485-8</td>
<td>Acute Tox. 4; H302</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05-2119229623-42-0000</td>
<td>Acute Tox. 1; H330</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Resp. Sens. 1; H319</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ARALDITE® 2018 ISOCYANATE (XD 4445)

Version 1.0  Revision Date: 05.05.2015  MSDS Number: 400001010071

| Skin Sens. 1; H317 | STOT SE 3; H335 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice: Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact: Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact: Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed
None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No data is available on the product itself.

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods: No data is available on the product itself.
Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : Strong acids

Strong bases

water
Storage class (TRGS 510) : 12, Non Combustible Liquids

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>hexamethylene-di-</td>
<td>822-06-0</td>
<td>VLA-ED</td>
<td>0,005 ppm</td>
<td>ED</td>
</tr>
<tr>
<td>diisocyanate</td>
<td></td>
<td></td>
<td>0,035 mg/m³</td>
<td>ES VLA</td>
</tr>
<tr>
<td>Further information</td>
<td>Sensitizer agent</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

- Hexamethylene diisocyanate, oligomers:
  - Fresh water:
    - Value: 0,05 mg/l
  - Marine water:
    - Value: 0,005 mg/l
  - Freshwater - intermittent:
    - Value: 0,5 mg/l
  - Sewage treatment plant:
    - Value: 55,6 mg/l
  - Fresh water sediment:
    - Value: 1,33 mg/kg
  - Sea sediment:
    - Value: 0,133 mg/kg
  - Soil:
    - Value: 0,066 mg/kg

- Siloxanes and silicones, di-Me, reaction products with silica:
  - Fresh water sediment:
    - Value: > 100 mg/kg
    - Assessment Factors
  - Soil:
    - Value: 23 mg/kg
    - Assessment Factors

8.2 Exposure controls

Personal protective equipment

- Eye protection:
  - Eye wash bottle with pure water
  - Tightly fitting safety goggles

- Hand protection:
  - Material: butyl-rubber
  - Break through time: > 8 h
    - Solvent-resistant gloves (butyl-rubber)
    - Nitrile rubber
    - 10 - 480 min
    - Neoprene gloves
Remarks: Polyvinyl alcohol or nitrile-butyl-rubber gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Skin and body protection: impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: In the case of vapor formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: paste
Color: opaque
Odor: slight
Melting point: ca. -24 °C
Boiling point: > 200 °C
Flash point: 158 °C
Method: Pensky-Martens closed cup, closed cup
Vapor pressure: < 0.0001 hPa (20 °C)
Density: 1.16 g/cm³

Solubility(ies)
Water solubility: Decomposes in contact with water. (20 °C)

Decomposition temperature: > 200 °C

Viscosity
Viscosity, dynamic: 12.000 - 18.000 mPa.s (25 °C)

9.2 Other information
No data available

SECTION 10: Stability and reactivity
10.1 Reactivity
Stable under recommended storage conditions.
10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions: Decomposes when moist.
Stable under recommended storage conditions. No decomposition if used as directed.

10.4 Conditions to avoid
Conditions to avoid: Exposure to moisture.
No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products
Carbon oxides
Nitrogen oxides (NOx)
Burning produces obnoxious and toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Ingredients:
Hexamethylene diisocyanate, oligomers:
Acute oral toxicity: LD50 (Rat, female): > 2.500 mg/kg
Method: OECD Test Guideline 423

Ingredients:
Hexamethylene diisocyanate, oligomers:
Acute inhalation toxicity: LC50 (Rat, female): 390 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

hexamethylene-di-isocyanate:
Acute inhalation toxicity: LC50 (Rat, male and female): 0,124 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Ingredients:
Hexamethylene diisocyanate, oligomers:
Acute dermal toxicity: LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
hexamethylene-di-isocyanate:
Acute dermal toxicity : LD50 (Rat, male and female): > 7,000 mg/kg
Method: OECD Test Guideline 402

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation

Ingredients:
Hexamethylene diisocyanate, oligomers:
Species: Rabbit
Assessment: Mild skin irritant
Method: OECD Test Guideline 404
Result: No skin irritation

Ingredients:
Hexamethylene diisocyanate:
Species: Rabbit
Assessment: Corrosive
Method: OECD Test Guideline 404
Result: Corrosive

Serious eye damage/eye irritation

Ingredients:
Hexamethylene diisocyanate, oligomers:
Species: Rabbit
Assessment: Mild eye irritant
Method: OECD Test Guideline 405
Result: No eye irritation

Ingredients:
Hexamethylene diisocyanate:
Species: Rabbit
Assessment: Corrosive
Method: OECD Test Guideline 405
Result: Irreversible effects on the eye

Respiratory or skin sensitization

Ingredients:
Hexane, 1,6-diisocyanato-, homopolymer:
Routes of exposure: Respiratory Tract
Species: Guinea pig
Result: Does not cause skin sensitization.

Routes of exposure: Skin
Species: Mouse
Method: OECD Test Guideline 429
Result: Causes sensitization.

Hexane, 1,6-diisocyanato-:
Routes of exposure: Skin
Species: Rabbit
Method: OECD Test Guideline 406
Result: Causes sensitization.
Routes of exposure: Respiratory Tract
Species: Guinea pig
Result: Causes sensitization.

Assessment: No data available

Germ cell mutagenicity

**Ingredients:**
Hexamethylene diisocyanate, oligomers:
Genotoxicity in vitro:
- Metabolic activation: with and without metabolic activation
  Result: negative

- Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 473
  Result: negative

- Metabolic activation: with and without metabolic activation
  Method: OECD Test Guideline 476
  Result: negative

hexamethylene-di-isocyanate:
Genotoxicity in vitro:
- Concentration: 10 mg/plate
  Metabolic activation: with and without metabolic activation
  Result: negative

- Concentration: 150 ug/plate
  Metabolic activation: with and without metabolic activation
  Method: This information is not available.
  Result: negative

Carcinogenicity

**Ingredients:**
hexamethylene-di-isocyanate:
Genotoxicity in vivo:
- Application Route: Inhalation
  Exposure time: 6 h
  Dose: 1.47 ppm
  Method: OECD Test Guideline 474
  Result: negative
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ARALDITE® 2018 ISOCYANATE (XD 4445)

Version 1.0
Revision Date: 05.05.2015
MSDS Number: 400001010071

Frequency of Treatment: 6 hour
Method: OECD Test Guideline 453
Result: negative

Carcinogenicity - Assessment: No data available

Reproductive toxicity

Ingredients:
hexamethylenedi-isocyanate:
Effects on fertility: Species: Rat, male and female
Application Route: Inhalation
Target Organs: Nasal inner lining
Method: OECD Test Guideline 422

Ingredients:
hexamethylenedi-isocyanate:
Effects on fetal development: Species: Rat, male and female
Application Route: Inhalation
General Toxicity Maternal: NOAEL (No observed adverse effect level): 0.005 ppm
Method: OECD Test Guideline 414
Result: No teratogenic effects.

Reproductive toxicity - Assessment: No data available

STOT-single exposure
No data available

STOT-repeated exposure
No data available

Repeated dose toxicity

Ingredients:
Hexamethylene diisocyanate, oligomers:
Species: Rat
NOEC: 3.3 - 3.4
Test atmosphere: dust/mist
Exposure time: 2.160 hNumber of exposures: 6 h
Method: OECD Test Guideline 413

Repeated dose toxicity - Assessment: No data available

Aspiration toxicity
No data available

Experience with human exposure
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ARALDITE® 2018 ISOCYANATE (XD 4445)

Version 1.0  Revision Date: 05.05.2015  MSDS Number: 400001010071

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution
No data available

Neurological effects
No data available

Further information
Product: Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Ingredients:
Hexamethylene diisocyanate, oligomers:
Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

hexamethylene-di-isocyanate:
Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): > 82,8 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Ingredients:
Hexamethylene diisocyanate, oligomers:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

hexamethylene-di-isocyanate:
Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 89.1 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Ingredients:
Hexamethylene diisocyanate, oligomers:
Toxicity to algae:
EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 1.000 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38412

Toxicity to algae:
EgC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 77.4 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water

M-Factor (Acute aquatic toxicity):
No data available

Toxicity to fish (Chronic toxicity):
No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
No data available

M-Factor (Chronic aquatic toxicity):
No data available

Ingredients:
Hexamethylene diisocyanate, oligomers:
Toxicity to bacteria:
EC50 (activated sludge): 3.828 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Toxicity to bacteria:
EC50 (activated sludge): 842 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Remarks : No data available

Further information:
No data available

12.2 Persistence and degradability

Ingredients:
Hexamethylene diisocyanate, oligomers:
Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1 %
Exposure time: 28 d

hexamethylene-di-isocyanate:
Biodegradability : Inoculum: activated sludge
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: 48 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available
Dissolved organic carbon (DOC): No data available

Physico-chemical removability: No data available

Stability in water: No data available

Photodegradation: No data available

12.3 Bioaccumulative potential

**Ingredients:**
- hexamethylene-di-isocyanate:
  - Bioaccumulation: Bioconcentration factor (BCF): 3.2
  - Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

**Mobility:** No data available

**Ingredients:**
- hexamethylene-di-isocyanate:
  - Distribution among environmental compartments: Koc: 1665 - 5861.
  - Stability in soil: No data available

12.5 Results of PBT and vPvB assessment

**Assessment - Product:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

**Environmental fate and pathways:** No data available

Endocrine disrupting potential: No data available

Adsorbed organic bound halogens (AOX): No data available

Ozone-Depletion Potential: No data available

**Additional ecological information - Product Global warming potential (GWP):** Remarks: There is no data available for this product.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:
- Do not dispose of waste into sewer.
- Do not contaminate ponds, waterways or ditches with chemical or used container.
- Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging:
- Empty remaining contents.
- Dispose of as unused product.
- Do not re-use empty containers.

SECTION 14: Transport information

IATA
Not regulated as a dangerous good

IMDG
Not regulated as a dangerous good

ADR
Not regulated as a dangerous good

RID
Not regulated as a dangerous good

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

SECTION 15: Regulatory information

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

Not applicable

Volatile organic compounds:
- Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
  - Volatile organic compounds (VOC) content: 4 %, 46.4 g/l
  - Remarks: VOC content excluding water

  Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
  - Volatile organic compounds (VOC) content: 4 %, 46.4 g/l
  - Remarks: VOC content valid only for coating materials used on wood surfaces

The ingredients of this product are reported in the following inventories:
### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

### 15.2 Chemical Safety Assessment

**SECTION 16: Other information**

**Full text of H-Statements**

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

**Full text of other abbreviations**

- **Acute Tox.**: Acute toxicity
- **Eye Irrit.**: Eye irritation
- **Resp. Sens.**: Respiratory sensitization
- **Skin Irrit.**: Skin irritation
- **Skin Sens.**: Skin sensitization
- **STOT SE**: Specific target organ systemic toxicity - single exposure
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