1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Iso 126/1 Isocyanate component

Product code: 000000000054254231

Manufacturer or supplier's details
Company: SAUDI BASF FOR BUILDING MATERIALS CO. LTD
Address: Dammam 2nd Industrial Area AL Khobar 31952
Telephone: +966966138121140
Emergency telephone: ChemTel: +1-813-248-0585
Telefax: +966966138121822

2. HAZARDS IDENTIFICATION

GHS Classification
Acute toxicity (Inhalation): 4
Serious eye damage: Category 2A
Skin irritation: 2
Specific target organ toxicity - single exposure: 3
Skin sensitization: 1
Respiratory sensitization: 1
Carcinogenicity: 2
Specific target organ toxicity - repeated exposure (Inhalation): 2 (Respiratory system)

GHS label elements
Hazard pictograms:

Signal Word: Danger
Hazard Statements: H315 Causes skin irritation. H317 May cause an allergic skin reaction.
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Precautionary Statements:

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust or mist.
P261 Avoid breathing spray.
P264 Wash the contact area thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281 Use personal protective equipment as required.
P284 In case of inadequate ventilation wear respiratory protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed. 
P405 Store locked up.

Disposal:
P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards which do not result in classification
See section 12 - Results of PBT and vPvB assessment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature:

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)</td>
<td>9016-87-9</td>
<td>&gt;= 30 - &lt;= 90</td>
</tr>
<tr>
<td>methylenediphenyl diisocyanate</td>
<td>26447-40-5</td>
<td>&gt;= 10 - &lt; 70</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice:
First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

In case of skin contact:
Immediately wash thoroughly with soap and water, seek medical attention.

In case of eye contact:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Dry powder
Carbon dioxide (CO2)
Alcohol-resistant foam
Water spray

Unsuitable extinguishing media:
water jet

Specific hazards during fire fighting:
In case of fire hazardous decomposition products may be produced such as:

Hazardous combustion products:
nitrogen oxides
isocyanate
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Date of first issue: 09.07.2020

Specific extinguishing methods: Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and chemical-protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions: Do not empty into drains. Do not discharge into the subsoil/soil.

Methods and materials for containment and cleaning up: Neutralize with a solution of 5 - 10 % Sodium carbonate, 0,2 - 2 % detergents and 90 - 95 % water.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion: No special precautions necessary.

Advice on safe handling: Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Provide basic employee training to prevent/minimize exposures.

Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances, e.g. primary aromatic amines. Industrial cleaning with aprotic polar solvents (meeting the IUPAC definition) may lead to formation of hazardous primary aromatic amine (>0,1%). See Section 11.

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Protect against moisture. Formation of CO2 and build up of pressure possible. Danger of bursting when sealed gastight.

Materials to avoid: Keep away from water. Segregate from foods and animal feeds. Segregate from acids and bases.

Further information on storage stability: If moisture enters isocyanate containers, CO2 forms and pressure builds up.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Engineering measures: It is recommended to control the adherence of the DNEL/DMEL-values by measurements. Ensure an efficient ventilation of the working place (at least 3 air changes per hour).

Personal protective equipment

Respiratory protection: Respiratory protection in case of vapour/aerosol release.
Filter type: Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

Hand protection

Remarks: Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness Unsuitable materials polyvinylchloride (PVC) - 0.7 mm coating thickness Polyethylene-Laminate (PE laminate) - ca. 0.1 mm coating thickness

Suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (meeting the IUPAC definition): butyl rubber (butyl) - 0.7 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Protective measures: Do not breathe vapour/spray.
With products freshly manufactured from isocyanates body protection and chemical resistant protective gloves is recommended.
Wearing of closed work clothing is required additionally to the stated personal protection equipment.

Hygiene measures: No eating, drinking, smoking or tobacco use at the place of work.
Take off immediately all contaminated clothing.
Hands and/or face should be washed before breaks and at the end of the shift.
At the end of the shift the skin should be cleaned and skin-care agents applied.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: yellowish to brown
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>earthy, musty</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>solidification temperature</td>
<td>&lt; 10 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Boiling range</td>
<td>&gt; 200 °C (1.013 hPa)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Value can be approximated from Henry's Law Constant or vapor pressure.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not flammable</td>
</tr>
<tr>
<td></td>
<td>Method: derived from flash point</td>
</tr>
<tr>
<td>Self-ignition</td>
<td>not self-igniting</td>
</tr>
<tr>
<td>Upper explosion limit / Upper</td>
<td>For liquids not relevant for classification and labelling.</td>
</tr>
<tr>
<td>flammability limit</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit / Lower</td>
<td>For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.</td>
</tr>
<tr>
<td>flammability limit</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 0.01 Pa (25 °C)</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.23 (20 ºC)</td>
</tr>
<tr>
<td>Density</td>
<td>1.23 g/cm³ (20 ºC)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Hydrolyzes to form water-insoluble compounds.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>not applicable for mixtures</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt; 530 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt; 230 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>80 - 120 mPa.s (25 °C)</td>
</tr>
<tr>
<td></td>
<td>Method: Viscometry; Measurement of the dynamic viscosity of Newtonian fluids with rotational viscometers;</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>not fire-propagating</td>
</tr>
</tbody>
</table>
Self-heating substances : not applicable, the product is a liquid
Molecular weight : No data available.
Metal corrosion rate : No corrosive effect on metal.

10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability : The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions : Reacts with water, with formation of carbon dioxide.
Risk of bursting.
Reacts with substances which contain active hydrogen.
The product is chemically stable.
Reacts with water, with formation of carbon dioxide.
Risk of bursting.
Reacts with alcohols.
Reacts with acids.
Reacts with alkalies.
Reacts with amines.
Risk of exothermic reaction.
Risk of polymerization.
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.
The product is chemically stable.

Conditions to avoid : Temperature < 15 degrees Celsius
Avoid moisture.
Incompatible materials : Acids
Alcohols
Amines
Water
Alkalines

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Aspiration toxicity

Product: No aspiration hazard expected.

Components:

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI): No aspiration hazard expected.
methylenediphenyl diisocyanate:
No aspiration hazard expected.

**Further information**

**Product:**
Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**Isocyanic acid, polymethylene polyphenylene ester (P-MDI):**

Toxicity to fish:
- LC0 (Fish): > 1.000 mg/l
- Exposure time: 96 h
- Method: other

Toxicity to daphnia and other aquatic invertebrates:
- EC0 (daphnia): > 500 mg/l
- Exposure time: 24 h
- Method: other

Toxicity to algae/aquatic plants:
- EC0 (green algae): 1.640 mg/l
- Exposure time: 72 h
- Method: Algae, Growth Inhibition Test

**Persistence and degradability**

**Components:**

**Isocyanic acid, polymethylene polyphenylene ester (P-MDI):**

Biodegradability:
- aerobic
  - Inoculum: activated sludge
  - Result: Under test conditions no biodegradation observed.
  - Biodegradation: < 10 %
  - Exposure time: 28 d
  - Method: MITI Test (II), inherent.

**Bioaccumulative potential**

**Components:**

**Isocyanic acid, polymethylene polyphenylene ester (P-MDI):**

Partition coefficient: n-octanol/water:
- Remarks: not applicable

**Mobility in soil**

No data available
Other adverse effects

Product:

Adsorbed organic bound halogens (AOX): Remarks: This product contains no organically-bound halogen.

Additional ecological information: Do not release untreated into natural waters.
Do not allow to enter soil, waterways or waste water channels.

Components:

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI):

Adsorbed organic bound halogens (AOX): Remarks: This product contains no organically-bound halogen.

Additional ecological information: Do not release untreated into natural waters.
Do not allow to enter soil, waterways or waste water channels.

methylene diphenyl diisocyanate:

Adsorbed organic bound halogens (AOX): Remarks: This product contains no organically-bound halogen.

Additional ecological information: Do not release untreated into natural waters.
Do not allow to enter soil, waterways or waste water channels.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Incinerate in suitable incineration plant, observing local authority regulations.
Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Contaminated packaging: Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
This material and its container must be disposed of in a safe way.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
If it is intended to use materials for the manufacture of consumer goods (e.g. products which will come into contact with foodstuffs or with the skin, toys) or medical products, national and international regulations have to be observed. Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Product Safety departments.
If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.


16. OTHER INFORMATION

Further information
Other information : For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substanc-
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es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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