

UP-6160BL

Reviewed on: 17/05/2007

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1. Identification of the substance/preparation and of the company/undertaking**TRADE NAME: UP-6160BL****MANUFACTURER/SUPPLIER:**

Axson Technologies (Shanghai) international Co., Ltd

No. 53, Taigu Road, Wai Gao Qiao Free Trade Zone 200131 Shanghai - China

Tel : +86-21-58683037**Fax :** +86-21-58682601**Further information obtainable from:** Lab R&D 86-21-58683037**Emergency Contact Number: 86-21-58683035****2. Composition / information on ingredients****Mixed or non-mixed product:** Mixed product**•common product name:** modified MDI**•Ingredients:**

CAS No.	Ingredients	UN class	UN No.	Mixing ratio
101-68-8	Diphenylmethane-4,4'-diisocyanate(MDI)			65
25686-28-6	MDI Modified Carbodiimide			20
94048-57-1	MDI Modified polyol			15

3. Hazards identification**•Classification:** acute toxic component, other dangerous component**•Hazardously:** ignitable liquid**•Hazard for human:** Steam or mist may cause irritation on eye, respiratory organs and inflammation or asthma on skin, eye or nose.**4. First-aid measures****•After eye contact:** Open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Call a physician, preferably an eye specialist.**•After skin contact:** Change any soiled clothing immediately. Wash skin with large quantities of water for at least fifteen minutes. Call a physician if pain or irritation continues.**•After inhalation:** Remove the patient to a fresh air area and keep warm by a blanket and take a rest. Call a physician immediately.**•After swallowing:** Do not induce vomiting; call a physician immediately.**5. Fire - fighting measures****•Suitable extinguishing agents:** foam, powder or water spray, CO2**•Fire-fighting method:** Remove the combustible from the origin of fire and extinguish the fire from upper side of wind with extinguishing agents.**6. Accidental release measures****•In case of leakage for a small quantity:** Remove the combustible immediately. Absorb spilt material with absorbent substance and transfer to the container and close tightly.**•In case of leakage for a large quantity:** Avoid spilt material transfer to sewers or rivers and remove it as much as possible and transfer to the container and close tightly. Absorb unremovable spilt material with absorbent and transfer to the container and close tightly. Keep out the spot with rope and remove the combustible immediately. Wear protective equipment for above procedures.

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7. Handling and storage

7-1 Handling:

- Wear protective equipment to avoid inhalation of the steam, eye/skin contact.
- Ensure sufficient ventilation for indoor workplace especially when heat up the product.
- Be careful not to contact the product and the material which cause chemical reaction with the product.

7-2 Storage:

- Keep the product with enough fresh air internally with fire prevention. Sign with no fire.

8. Exposure controls / personal protection

•Permitted density as MDI:

Japan Association of Industrial Health: suggest 0.05mg/m³ as tentative value at TWA

AGIH TLV: TWA 0.05ppm

STEL 0.02ppm

OSHA: peak value 0.02ppm

•**Facility:** Facility can be closed tightly. In case steam or mist occurs, ventilate with ventilation fan. Wear protective equipment. Floor should be made from non-absorption material.

•**Protective equipment:** protective mask, unpenetrated cloth, protective glove/boots, protective glasses

9. Physical and chemical properties

Physical state	colorless liquid
Odor	faint odor
Density	1.217
Steam density	8.5 as MDI
Steam pressure	3x10 ⁻⁶ as MDI
Heat capacity	0.43cal/g·°C
Thermal conductivity	0.0003/m·s·°C
Viscosity	250mPa·s
Solubility	soluble in organic solvents except water and alcohol

10. Stability and reactivity

Flash point	232°C
Self ignition temperature	no data
Exposure limit	no data
Stability, reactivity	It is very high activity and reacts to active hydride (water, alcohol, amin, etc) and generate the heat. Polymerized heat is generated by existence of alkali or specific metal compound. It reacts to water and produce carbon dioxide.
Dangerous decomposition	Carbon monoxide or phenol gas may occurred by incomplete combustion

11. Toxicological information

•**Oral toxicity in rats:** LD50 (rat) as MDI <5000mg/kg

•**Effects on skin:** LC50 (rat) as MDI

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•**Effects by inhalation:** LD50 (rat) as MDI

Irritative steam or mist may cause irritation on eye, respiratory organs and inflammation or asthma on skin, eye or nose.

•**Stimulation:** weak stimulation on skin and eye

•**Other information:** In case metabolic active oxygen compound (S-9mix) is added at Ames test, it shows the mutation abiogenesis. The Ministry of Labor prescribes that MDI is existing chemical substance which recognizes the mutual abiogenesis.

12. Ecological information

Ecotoxicity: This product is practically without toxic effect on fish in static acute conditions.

Biodegradability: N/A

13. Disposal considerations

• **Information about elimination (persistence and degradability):**

Dispose of the product by burning in a suitable incinerator or bury in an approved land field following all applicable local and/or national regulations.

Disposal must be made according to official regulations.

14. Transport information

As for the transport, it follows a statute such as road transportation vehicles law As for other handling, it is done according to contents of mention of "handling and the attention in storage".

15. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.