



Product : AMINDO 7863-60
MSDS Number : MMSD-009
Version Date : November 29, 2010

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product : AMINDO 7863-60
Type : Urea Formaldehyde Resin

Supplier details:

PT ALKINDO MITRARAYA (AMR)
JI Gatot Subroto km. 8, Desa Kadu Jaya, Kecamatan Curug
Tangerang 15810
INDONESIA
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E-mail : alkindo@alkindo.net
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable Liquid Hazard Category 3
Skin Corrosion / Irritation Hazard Category 2
Serious Eye Damage / Eye Irritation Hazard Category 1
Skin Sensitizer Hazard Category 1
Carcinogenicity Hazard Category 2
Target Organ Systemic Toxicant (TOST) - Single Exposure Hazard Category 3
Aquatic Environment Chronic Hazard Category 4

GHS LABELING



GHS SIGNAL WORD

Danger

HAZARD STATEMENTS

Flammable liquid and vapor
Suspected of causing cancer
Causes serious eye damage
May cause an allergic skin reaction
Causes skin irritation
May cause respiratory irritation
May cause drowsiness and dizziness
May cause long lasting harmful effects to aquatic life



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PRECAUTIONARY STATEMENTS

Prevention

Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only no sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Use only outdoors or in a well-ventilated area. Avoid breathing vapors or spray mist.

Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific treatment - refer to supplemental first aid instructions. Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

In case of fire, use the following media for extinction: water spray or fog, alcohol foam, carbon dioxide, dry chemical.

Storage

Store in well ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local and national regulations.

3. COMPOSITION INFORMATION

CHEMICAL DESCRIPTION

Urea formaldehyde polymer –isobutylated (CAS No. 68002-18-6), in solution in isobutanol.

HAZARDOUS COMPONENTS

Urea formaldehyde polymer –isobutylated CAS No. 68002-18-6	60 ± 2 %
Isobutanol CAS No. 78-83-1	40 ± 2 %
Formaldehyde CAS No. 82115-62-6	± 0.3 %

4. FIRST AID MEASURES

EYE CONTACT:

In the event of contact with eyes, irrigate copiously with water for at least ten minutes, obtain medical advice immediately if irritation persists or there is any sign of tissue damage.

SKIN CONTACT:

Remove contaminated clothing. In the event of contact with the skin, remove excess resin with a clean cloth; clean skin with water (or soap and water). If irritation persists or if any sign of tissue damage is apparent, obtain medical advice immediately.



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INHALATION:

In the event of excessive inhalation remove the individual to fresh air and keep at rest; obtain medical advice immediately.

INGESTION:

In the event of accidental ingestion, rinse mouth with water; give up to 1 tumbler (½ pint) of milk or water to drink; obtain medical advice immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Foam, dry powder, carbon dioxide, water spray.

EXPOSURE HAZARDS:

Keep containers cool by spraying with water if exposed to fire. Heating will cause pressure rise with risk of bursting and subsequent explosion. For decomposition products see Section 10.

PROTECTIVE EQUIPMENT:

Fire fighters and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Use personal protection recommended in Section 8. Avoid breathing vapor from hot material. Where exposure level is known, wear approved, positive pressure, self-contained respirator. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

ENVIRONMENTAL PRECAUTIONS:

Do not allow to enter drains and water courses. If sewers become contaminated contact Local Water Authority and Police. Should resin enter other waterways inform the Environment Agency.

METHODS FOR CLEANING UP:

Absorb onto sand. Drums leaking near base may be inverted. Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

7. HANDLING & STORAGE

HANDLING:

Handle in a well-ventilated flameproof area preferably in an enclosed system. Keep concentration of vapors as low as is reasonably practicable and observe occupational exposure limits detailed in Section 8.

STORAGE:

Store in closed containers away from sources of heat in a well-ventilated flameproof area.
Storage temperature: 25 – 30°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES:

Ensure adequate ventilation to keep vapor concentrations below occupational exposure limits.

OCCUPATIONAL EXPOSURE LIMITS (EH40):

Formaldehyde

1 ppm

1.2 mg/m³

Isobutanol

50 ppm

310 mg/m³



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EYES:

Goggles.

RESPIRATORY PROTECTION:

Wear suitable respiratory protection if exposure limits may be exceeded. Airline respirator or cartridge respirator with appropriate filter.

HAND PROTECTION:

Wear impermeable gloves.

SKIN PROTECTION:

Wear suitable protective clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

Phase	: Liquid (25.0 °C)
Appearance, Color	: Transparent, colorless
Odor	: Formaldehyde and solvent
Boiling point (760 mmHg)	: 110 - 130°C
Water solubility	: insoluble
Flash point (°C)	: 30.0 (Tag close cup)

10. STABILITY & REACTIVITY

CONDITIONS TO AVOID:

Heating will cause pressure rise with risk of bursting and subsequent explosion.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products may include formaldehyde, butanol, oxides of nitrogen, and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Potential health effects:

- Limited evidence of a carcinogenic effect.
- Risk of serious damage to eyes.
- May cause sensitization by skin contact.
- Vapors may cause drowsiness and dizziness.
- Irritating to respiratory system and skin.

HAZARDOUS INGREDIENTS TOXICITY:

Isobutanol

Vapor is irritating to eyes, nose, and throat. Excessive exposure may cause depression of the central nervous system with headache, dizziness, and drowsiness.

Formaldehyde

Formaldehyde has oral (rat) and dermal (rabbit) LD50 values of 100 mg/kg and 270 mg/kg, respectively. The LC50 following a 4-hour inhalation exposure to rats is 250-478 ppm (0.31-0.59 mg/l). Irritation of the nose and throat has been observed in people exposed to formaldehyde vapor levels in excess of 1 ppm. Normal breathing may be seriously impaired at levels above 10 ppm and serious lung damage can occur at levels exceeding 50 ppm. Formaldehyde has been reported to cause pulmonary hypersensitivity in some individuals who were exposed to concentrations known to cause irritation; however, no pulmonary sensitization has been demonstrated in laboratory animal studies. Formaldehyde solutions can cause severe eye and moderate skin irritation. Repeated skin exposure to solutions of 2% or more formaldehyde has caused allergic skin reactions. Formaldehyde was found to be weakly mutagenic in a number of in vitro genotoxicity tests and positive in certain in vivo screening tests for mutagenicity. Formaldehyde did not cause birth defects in rats inhaling



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concentrations up to 10 ppm. However, a study using higher levels did show a slight but statistically significant reduction in male fetal body weight. Lifetime inhalation of formaldehyde vapor at concentrations above 5 ppm for 6 hours per day, caused nasal tumors in laboratory animals. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 (known) human carcinogen based on epidemiological evidence linking formaldehyde exposure to the occurrence of nasopharyngeal cancer, a rare type of cancer. IARC also found limited evidence of cancer of the nasal cavity and paranasal sinuses and insufficient evidence for an association between formaldehyde and leukemia. Inhalation caused liver and kidney damage in laboratory animal tests.

12. ECOLOGICAL INFORMATION

ASSESSMENT:

If properly handled, this material should not present a serious environmental hazard.

TEST RESULTS:

AMR has not conducted environmental studies on this product. The product does not contain any substance that is classified under EC legislation for environmental effects. Data is available on some of the components.

Isobutanol

BOD5 >0.5 Readily biodegradable
COD

Formaldehyde

BOD5 >0.5 Readily biodegradable
COD

13. DISPOSAL CONSIDERATIONS

AMR encourages the recycle, recovery, and reuse of materials, where permitted. If disposal is necessary, AMR recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name : Resin solution
UNDG Class : 3
UN Number : 1866
Packing Group : III
Transport label required : Flammable liquid
HAZCHEM Code : 3[Y]

Sea Transport (IMO)

Proper Shipping Name : Resin solution
IMDG Class : 3
UN Number : 1866
Packing Group : III
Transport label required : Flammable liquid

Air Transport (ICAO/IATA)

Proper Shipping Name : Resin solution
Hazard Class : 3
Packing Group : III
UN Number : 1866
Transport Label Required : Flammable liquid



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Packing Instruction/Maximum Net Quantity Per Package:

Passenger Aircraft : 309; 60L
Cargo Aircraft : 310; 220L

15. REGULATORY INFORMATION

European Union (EU): All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

United States (USA): All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

China: All components of this product are included on the Chinese Inventory or are not required to be listed on the Chinese Inventory.

Japan: All components of this product are included on the Japanese (ENCS) Inventory or are not required to be listed on the Japanese Inventory.

16. OTHER INFORMATION

Whilst every care has been taken in the preparation of this material safety data sheet, the same has been produced from information and data currently available to PT Alkindo Mitraraya at the date hereof; however, PT Alkindo Mitraraya cannot be responsible for any errors or omissions. If in any doubt, please consult PT Alkindo Mitraraya.

Reasons for issue: New Format