

According to the Directives 91/155/CEE-2001/58/CE-ISO 11014-1

Product Name:

Melamine

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/ UNDERTAKING

Identification of the substance or preparation: Melamine

Country of origin: Iran (Islamic Republic of Iran)

CAS Number: 108-78-1

Synonyms: 2,4,6-Triamino-s-Triazine; Isomelamine;

Cyanuramide

Company/undertaking identification National Petrochemical Company

Iran Petrochemical Commercial Company

(IPCC)

Manufacturer subcontractor: None

Emergency phone number: 00982188881735

Contact email: msds@petrochem-ir.net

Fax: 00982188839511

Association/Organization: None

Use of the substance/Preparation: Melamine resins a very durable

Tthermosetting plastic

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances: Hazardous in case of skin contact (irritant),

of eye contact (irritant), of ingestion, of

inhalation (lung irritant).

Hazardous label(s): No labeling is required according to Directive

67/548/EEC

Toxicological characteristics: Acute:

ORAL (LD50) : 3161 mg/kg [Rat] 3296 mg/kg [Mouse].

Acute:

DERMAL(LD50): 1000 mg/kg [Rabbit]

Substances present at a concentration below the

minimum danger: Other component:

3. IDENTIFICATION OF HAZARDS

Risk phrases: There is very low risk to human health Skin contact: It is an irritant when contact with the skin

Inhalation: It is an irritant when inhaled

Eye contact: It is an irritant when contact with eyes

If swallowed: It causes lung irritation

Other information: None



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Reactivity ammabilit <mark>Health</mark>

4. FIRST AID MEADURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor NEVER induce swallowing in an unconscious person.

In case of exposure by inhalation: If inhaled, remove to fresh air. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

medical attention.

In case of splashes or contact with eyes: Check for and remove any contact lenses. In

case of contact, immediately flush eyes with

plenty of water for at

least 15 minutes. Cold water may be

used. Get medical attention.

In case of swallowing:

Note of physician:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give

do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt

or waistband. Get medical attention if

symptoms appear.

5. FIRE FIGHTING MEASURES

Flammable class:

Suitable extinguishing media:

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Special protective equipment for fire fighting:

Other information:

May be combustible at high temperature.

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Do not use water jet.

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), cyanide fumes,

irritating and toxic fumes and gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Minimum Personal Protective Equipment

should be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), tyvek or lab coat and boots, dust mask.

Environmental precautions: Self-Contained Breathing Apparatus must be selected if releases which occur in confined or

poorly ventilated areas or in situations in which the level of oxygen is below 19.5.

Methods for cleaning up and disposal: Sweep up or vacuum spilled solid, minimizing



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the generation of airborne particulates. Rinse area with soap and water solution, followed by a water rinse. Close off sewers and take other measures to protect human health and the environment, as necessary.

Other information: None

7. HANDLING AND STORAGE

Storage:

The regulations relating to storage premises apply to workshop where the product is handled

Handling: Keep locked up.. Keep away from heat. Keep

away from sources of ignition. Empty

containers pose a fire risk,

evaporate the residue under a fume hood. Ground all equipment containing material.

Do not ingest. Do not

breathe dust. Wear suitable protective clothing. In case of insufficient ventilation,

wear suitable respiratory

equipment. If ingested, seek medical advice immediately and show the container or the

label. Avoid contact with

skin and eyes. Keep away from incompatibles

such as oxidizing agents, acids.

Keep container tightly closed. Keep container

in a cool, well-ventilated area. Do not store

above 23°C (73.4°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: Not available.

Exposure controls: Use process enclosures, local exhaust

ventilation, or other engineering controls to

keep airborne levels below

recommended exposure limits. If user operations generate dust, fume or mist, use

ventilation to keep exposure to

airborne contaminants below the exposure

limit.

Personal protective equipment: Splash goggles. Lab coat. Dust respirator. Be

sure to use an approved/certified respirator or

equivalent. Gloves.

Eye protection: Splash goggles or safety glasses.

Respiratory protection: None normally required for routine chemical



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use. Airborne contaminant concentrations must be maintained below guidelines listed in Section 2 (Composition and Information on Ingredients). If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

Wear Neoprene Rubber gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS.

Use body protection appropriate for task.

Hand protection:

Skin and body protection:

Health measures:

Environmental exposure controls:

9. PHYSICAL AND CHEMICAL PROPERTIES

General information: Solid. (Crystalline solid.)

Appearance (at 20°C): Powder
Colour: White powder

Odour: Mild odor like ammonia odor PH (at 20°C): 9.2

Boiling point/range (°C): Sublimes

Flash point (°C):

Flammability: Not flammable Auto-ignition temperature: -

Explosive properties:

Oxidising properties:

Vapour pressure (at 20°C):

Not explosive

No data available

Not applicable.

Density (at 20°C): 1.47

Solubility (at 20°C): Water solubility: Partially soluble in cold

water.

solubility in fats: No data available Not applicable.

Viscosity (40°C): Evaporation rate: Other information:



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10. STABILITY AND REACTIVITY

Stability: Stable in environmental conditions

Conditions to avoid: Avoid exposure or contact to extreme

temperatures, incompatible chemicals.

Material to avoid: Oxidizing agents, strong acids, chorine, sodium

nitrate, sodium hypochlorite

Hazardous decomposition products: Thermal decomposition can generate nitrogen

oxides and carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Acute or al toxicity (LD50):

3161 mg/kg [Rat]. LD50 (Oral-Mouse) :

3296 mg/kg

Acute dermal toxicity (LD50):

>1000 mg/kg [Rabbit].

Sub chronic – chronic toxicity: CARCINOGENIC EFFECTS:

Classified: 3 (Equivocal evidence.) By NTP. 3
 (Not classifiable for human.) by IARC.
 MUTAGENIC EFFECTS: Mutagenic for

bacteria and/or yeast.

Sensibilization:

Carcinogenicity: May also be tumorigenic (carcinogenic) based on

animal data.

Reproductive effects: May cause adverse reproductive effects (fertility,

fetotoxicity), and may affect genetic material

based on animal

Data.

Human experience: Hazardous in case of skin contact (irritant), of

ingestion, of inhalation (lung irritant).

Other information:

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Bioaccumulative potential: The products of degradation are less toxic than

the product itself.

Mobility: No data available



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Persistence and degradability: Possibly hazardous short term degradation

products are not likely. However, long term

degradation products may

arise.

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Disposal of product: Waste must be disposed of in accordance with

federal, state and local environmental

control regulations.

Disposal of packaging: Waste must be disposed of in accordance

with federal, state and local environmental

control regulations.

14. TRANSPORT INFORMATION

THIS MATERIAL IS NOT HAZARDOUS

AS DEFINED BY 49 CFR 172.101 BY THE

U.S. DEPARTMENT OF

TRANSPORTATION.

ADR/RID: Class:

Packaging group:

Land transport:

Not applicable.

Maritime transport:

Not applicable.

Air transport: Not applicable.

15. REGULATORY INFORMATION

Hazardous label(s):

Safety phrases: R36/37/38- Irritating to eyes, respiratory

system and skin.

Risk phrases: S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing,

gloves and eye/face protection.

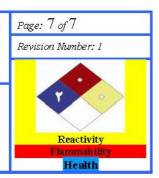
16. OTHER INFORMATION



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The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC

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