# SIGMA-ALDRICH

# Material Safety Data Sheet

	Version 3.0
Revision Date	08/22/2009
Print Date	04/02/2011

	IY IDENTIFICATION			
Product name	: Metrizamide			
Product Number	: M4512			
Brand	: Sigma			
Company	: Sigma-Aldrich			
	3050 Spruce S			
	SAINT LOUIS USA	MO 63103		
Telephone	: +1 800-325-58	32		
Fax	: +1 800-325-50			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORMA		ſS		
Formula				
Molecular Weight	: C18H22I3N3O : 789.1 g/mol	8		
-	-			
CAS-No.	EC-No.	Index-No.	Concentration	
Metrizamide				
31112-62-6	250-475-5	-	-	
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Emergency Overview OSHA Hazards	N			
Emergency Overview OSHA Hazards Target Organ Effect	N			
Emergency Overview OSHA Hazards Target Organ Effect Target Organs	NC			
Emergency Overview OSHA Hazards Target Organ Effect Target Organs Vascular system.	N			
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Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

## 4. FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

# 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point no data available

Ignition temperature no data available

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions** Avoid dust formation.

Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Light sensitive.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection Safety glasses

Salety glasses

## Hygiene measures

General industrial hygiene practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	crystalline
Colour	white
Safety data	
рН	3.0 - 5.0 at 789.1 g/l at 25 °C (77 °F)
Melting point	222 - 224 °C (432 - 435 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	ca.789.1 g/l at 20 °C (68 °F)

## **10. STABILITY AND REACTIVITY**

## Storage stability

Stable under recommended storage conditions.

# Materials to avoid

Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen iodide

## **11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

LD50 Oral - rat - > 20,000 mg/kg

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

## Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Developmental Toxicity - rat - Intraperitoneal Effects on Embryo or Fetus: Fetal death.

Reproductive toxicity - rat - Intraperitoneal

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Reproductive toxicity - rat - Intravenous

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Fertility: Other measures of fertility

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Target Organs	Vascular system.,

Additional Information RTECS: LZ6650000

## **12. ECOLOGICAL INFORMATION**

## Elimination information (persistence and degradability)

no data available

## **Ecotoxicity effects**

no data available

## Further information on ecology

no data available

## **13. DISPOSAL CONSIDERATIONS**

## Product

Observe all federal, state, and local environmental regulations.

# Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

## **15. REGULATORY INFORMATION**

## **OSHA Hazards**

Target Organ Effect

## **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Metrizamide

## SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CAS-No.

31112-62-6

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Chronic Health Hazard

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

Metrizamide	CAS-No. 31112-62-6	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Metrizamide	31112-62-6	Revision Date

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## **16. OTHER INFORMATION**

## **Further information**

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