# N-(lodoacetylaminoethyl)-8-Naphthylamine-1-Sulfonic Acid

sc-212014

**Material Safety Data Sheet** 



The Power to Questio

Hazard Alert Code Key:

EXTREME

HIGH

**MODERATE** 

LOW

#### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### **PRODUCT NAME**

N-(Iodoacetylaminoethyl)-8-Naphthylamine-1-Sulfonic Acid

#### STATEMENT OF HAZARDOUS NATURE

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

#### **NFPA**



#### **SUPPLIER**

Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800

## **EMERGENCY**

ChemWatch

Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

#### **SYNONYMS**

C14-H15-I-N2-O4-S, "N-(iodoacetaminoethyl)-1-naphthylamine-8-sulfonic acid", "8-[2-(iodoacetamido)ethylamino]naphthalene-1-sulfonic acid", "8-[2-(iodoacetamido)ethylamino]-1-napthalenesulfonic acid", "1, 8-I-AEDANS"

#### **Section 2 - HAZARDS IDENTIFICATION**

#### **CHEMWATCH HAZARD RATINGS**

		Min	Max	
Flammability	1			
Toxicity	2			
Body Contact	0		Min/Nil=0 Low=1	
Reactivity	1		Moderate=2	
Chronic	2		High=3 Extreme=4	2

#### **CANADIAN WHMIS SYMBOLS**



#### **EMERGENCY OVERVIEW** RISK

Harmful if swallowed.

#### **POTENTIAL HEALTH EFFECTS**

#### **ACUTE HEALTH EFFECTS**

#### **SWALLOWED**

■ Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

■ Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.

■ Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models).

Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions.

- Open cuts, abraded or irritated skin should not be exposed to this material.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### **INHALED**

■ The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models).

Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

■ Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.

#### **CHRONIC HEALTH EFFECTS**

■ Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

There is limited evidence that, skin contact with this product is more likely to cause a sensitization reaction in some persons compared to the general population.

Based on experience with animal studies, there is a possibility that exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother.

Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.

lodine and iodides, may give rise to local allergic reactions such as hives, rupture of skin blood vessels, pain in joints or diseases of the lymph nodes.

lodine and iodides cause goitre and diminished as well as increased activity of the thyroid gland. A toxic syndrome resulting from chronic iodide overdose and from repeated administration of small amounts of iodine is characterised by excessive saliva production, head cold, sneezing, conjunctivitis, headache, fever, laryngitis, inflammation of the bronchi and mouth cavity, inflamed parotid gland, and various skin rashes. Swelling and inflammation of the throat, irritated and swollen eyes and lung swelling may also occur. Swelling of the glottis, necessitating a tracheotomy has been reported. Use of iodides in pregnancy can cause foetal death, severe goitre, hypothyroidism and the cretinoid appearance of the newborn.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS											
NAME	CAS RN	%									
N-(Iodoacetylaminoethyl)-8-Naphthylamine-1-Sulfonic Acid	36930-64-0	>98									

#### **Section 4 - FIRST AID MEASURES**

#### **SWALLOWED**

- IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.

#### **EYE**

If this product comes in contact with the eyes

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If skin contact occurs

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

#### **INHALED**

- If dust is inhaled, remove from contaminated area.
- Encourage patient to blow nose to ensure clear passage of breathing.
- If irritation or discomfort persists seek medical attention.

#### **NOTES TO PHYSICIAN**

■ for poisons (where specific treatment regime is absent)

#### BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema .

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES									
Vapor Pressure (mmHG)	Negligible								
Upper Explosive Limit (%)	Not available.								
Specific Gravity (water=1)	Not available								
Lower Explosive Limit (%)	Not available								

#### **EXTINGUISHING MEDIA**

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### **FIRE FIGHTING**

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.

#### GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds.; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.
- In the same way as gases and vapors, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL), are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC)
- A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive

force capable of damaging plant and buildings and injuring people.

Combustion products include carbon monoxide (CO), carbon dioxide (CO2), hydrogen iodide, nitrogen oxides (NOx), sulfur oxides (SOx), other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

May emit corrosive fumes.

#### FIRE INCOMPATIBILITY

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

#### MINOR SPILLS

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact by using protective equipment.

#### **MAJOR SPILLS**

Moderate hazard.

- CAUTION Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.
- Prevent, by any means available, spillage from entering drains or water courses.

#### **Section 7 - HANDLING AND STORAGE**

#### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorization or permit.

#### **RECOMMENDED STORAGE METHODS**

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

#### STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Store at 4 deg C.

#### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **EXPOSURE CONTROLS**

Source	Material	TWA mg/m³			
Canada - Ontario Occupational Exposure Limits	N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particles (Insoluble or Poorly Soluble) Not Otherwise)	10 (I)			
Canada - British Columbia Occupational	N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particles (Insoluble or Poorly Soluble) Not Otherwise	10 (N)			

Classified (PNOC))			
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs)		3 (R)	
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)		5	
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)		5	(n)
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f) Total Dust)	-	10	Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated."
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)		5	
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f) Respirable Fraction)	-	5	Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated."
	N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f) Total Dust)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)	N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f) Total Dust)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f)	N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated Respirable fraction)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f) Total Dust)  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)  5  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated, Respirable dust)  5  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f)  5  N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine (Particulates not otherwise regulated (PNOR) (f)

US - Wyoming

Toxic and N-iodoacetyl-N'-(8-sulfo-Hazardous 1-naphthyl)ethylenediamine Substances (Particulates not otherwise

Table Z1 Limits regulated (PNOR)(f)for Air Respirable fraction)

Contaminants

## PERSONAL PROTECTION



#### **RESPIRATOR**

Particulate. (AS/NZS 1716 & 1715, EN 1432000 & 1492001, ANSI Z88 or national equivalent)

#### EYE

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

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#### HANDS/FEET

NOTE

- The material may produce skin sensitization in predisposed individuals. Care must be taken, when removing gloves and other
  protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene
- nitrile rubber
- butyl rubber
- fluorocaoutchouc

#### **OTHER**

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.

#### **ENGINEERING CONTROLS**

■ Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

#### **PHYSICAL PROPERTIES**

#### Solid.

Does not mix with water.

State	Divided solid	Molecular Weight	434.25
Melting Range (°F)	439(decomposes)	Viscosity	Not Applicable
Boiling Range (°F)	Not applicable	Solubility in water (g/L)	Partly miscible
Flash Point (°F)	Not available	pH (1% solution)	Not applicable
Decomposition Temp (°F)	439	pH (as supplied)	Not applicable
Autoignition Temp (°F)	Not available	Vapor Pressure (mmHG)	Negligible
Upper Explosive Limit (%)	Not available.	Specific Gravity (water=1)	Not available
Lower Explosive Limit (%)	Not available	Relative Vapor Density (air=1)	Not Applicable
Volatile Component (%vol)	Negligible	Evaporation Rate	Not applicable

#### **APPEARANCE**

Hygroscopic powder; does not mix well with water. May discolor in light.

#### Section 10 - CHEMICAL STABILITY

#### **CONDITIONS CONTRIBUTING TO INSTABILITY**

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerization will not occur.

#### STORAGE INCOMPATIBILITY

- Avoid reaction with oxidising agents
- Avoid strong bases.

For incompatible materials - refer to Section 7 - Handling and Storage.

#### Section 11 - TOXICOLOGICAL INFORMATION

N-iodoacetyl-N'-(8-sulfo-1-naphthyl) ethylenediamine

#### **TOXICITY AND IRRITATION**

■ No significant acute toxicological data identified in literature search.

#### **CARCINOGEN**

N-iodoacetyl-N'-(8-sulfo-1-naphthyl)ethylenediamine US - Maine Chemicals of High Concern List Carcinogen

## **Section 12 - ECOLOGICAL INFORMATION**

No data

#### **Ecotoxicity**

Ingredient				sistenc ter/Soil		F	Persister	nce: Air		Bioaccumulation			Mobility				
N-iodoacetyl-N'-(8-sulfo- 1-naphthyl)ethylenediamine		HIC	SH		٨	No Data Available			LOW			MED	MED				
GESAMP/E	HS C	ОМРО	SITE	LIST -	GESA	MP H	azard	Profile	es								
Name / EHS Cas No / RTECS No	TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
Poly(2+ 224 )cyclic 6	574	4		4	NR	(4)	NI	(1)	(1)	(2)	(1)	(1)	CM		S	3	

aromati cs / CAS:369 30- 64-0 /

Legend: EHS=EHS Number (EHS=GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships) NRT=Net Register Tonnage, A1a=Bioaccumulation log Pow, A1b=Bioaccumulation BCF, A1=Bioaccumulation, A2=Biodegradation, B1=Acuteaquatic toxicity LC/ECIC50 (mg/l), B2=Chronic aquatic toxicity NOEC (mg/l), C1=Acute mammalian oral toxicity LD50 (mg/kg), C2=Acutemammalian dermal toxicity LD50 (mg/kg), C3=Acute mammalian inhalation toxicity LC50 (mg/kg), D1=Skin irritation & corrosion, D2=Eye irritation& corrosion, D3=Long-term health effects, E1=Tainting, E2=Physical effects on wildlife & benthic habitats, E3=Interference with coastal amenities, For column A2: R=Readily biodegradable, NR=Not readily biodegradable. For column D3: C=Carcinogen, M=Mutagenic, R=Reprotoxic, S=Sensitizing, A=Aspiration hazard, T=Target organ systemic toxicity, L=Lunginjury, N=Neurotoxic, I=Immunotoxic. For column E1: NT=Not tainting (tested), T=Tainting test positive. For column E2: Fp=Persistent floater, F=Floater, S=Sinking substances. The numerical scales start from 0 (no hazard), while higher numbers reflect increasing hazard. (GESAMP/EHS Composite List of Hazard Profiles - Hazard evaluation of substances transported by ships)

#### Section 13 - DISPOSAL CONSIDERATIONS

#### **Disposal Instructions**

All waste must be handled in accordance with local, state and federal regulations.

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorized landfill.
- Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

#### **Section 14 - TRANSPORTATION INFORMATION**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: DOT, IATA, IMDG

#### **Section 15 - REGULATORY INFORMATION**

## N-iodoacetyl-N'-(8-sulfo-1-naphthyl)ethylenediamine (CAS: 36930-64-0) is found on the following regulatory lists:

"GESAMP/EHS Composite List - GESAMP Hazard Profiles","IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO","IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards","US - California Occupational Safety and Health Regulations (CAL/OSHA) - Hazardous Substances List","US - California Toxic Air Contaminant List Category III","US - Maine Chemicals of High Concern List","US Clean Air Act - Hazardous Air Pollutants","US EPA Toxic Chemical Release Inventory Persistent Bioaccumulative Toxic Chemical (PBT) List","US EPCRA Section 313 Chemical List","US List of Lists - Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the Clean Air Act"

#### **Section 16 - OTHER INFORMATION**

#### LIMITED EVIDENCE

- Cumulative effects may result following exposure\*.
- Possible skin sensitizer\*.
- May possibly be harmful to the foetus/embryo\*.
- \* (limited evidence).

#### Denmark Advisory list for selfclassification of dangerous substances

Substance CAS Suggested codes

N- iodoacetyl- N' - (8- sulfo- 1- 36930- 64- 0 R52/53

naphthyl)ethylenediamine

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.
- For detailed advice on Personal Protective Equipment, refer to the following U.S. Regulations and Standards:

OSHA Standards - 29 CFR:

1910.132 - Personal Protective Equipment - General requirements

1910.133 - Eye and face protection

1910.134 - Respiratory Protection

1910.136 - Occupational foot protection

1910.138 - Hand Protection

Eye and face protection - ANSI Z87.1

Foot protection - ANSI Z41

Respirators must be NIOSH approved.

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