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Version 7 SDS No. Exempt, SR&D

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THECOMPANY/UNDERTAKING

Product Identifier

Product Description: <u>2,6-Diisopropylaniline</u>

 Cat No. :
 L10761

 CAS No
 24544-04-5

 Molecular Formula
 C12 H19 N

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Intermediate.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Importer Supplier

Fisher Scientific Korea Thermo Fisher Scientific Chemicals, Inc.

D5,D6, Incheon Airport Logistics Complex 30 Bond Street

150, Gonghangdong-Ro 296 Beon-Gil Ward Hill, MA 01835-8099

Jung-Gu, Incheon Tel: +82-1661-9555 Fax: +82-2-2023-0603

E-mail address Chem.KR@thermofisher.com

Emergency Telephone Number

Emergency telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970

CHEMTREC: 080 822 1374 (Local), CHEMTREC: 1-800-424-9300 or + 1-703-527-3887

Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Chronic aquatic toxicity Category 3

Label Elements

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Hazard Statements

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

P273 - Avoid release to the environment

Disposal

P501 - Dispose of contents/container to industrial incineration plant

Other Hazards

This product does not contain any known or suspected endocrine disruptors Toxic to terrestrial vertebrates

NFPA

HealthFlammabilityInstabilityPhysical hazards10N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	Common Name	CAS No	Index No	Weight %
Benzenamine, 2,6-bis(1-methylethyl)-	No information available	24544-04-5	Not listed	99 - 100
Aniline	Aminobenzene; Phenylamine	62-53-3	KE-01180	0.1 - 0.5

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Get medical attention.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing,

give artificial respiration.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

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Extinguishing media

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx).

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

Methods and Material for Containment and Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Component	CAS No	Korea	ACGIH TLV	OSHA PEL
Benzenamine,	24544-04-5	Not listed	Not listed	Not listed
2,6-bis(1-methylethyl)-				
Aniline	62-53-3	TWA: 2 ppm	TWA: 2 ppm	(Vacated) TWA: 2 ppm

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Skin	Skin	(Vacated) TWA: 8 mg/m ³
		Skin
		TWA: 5 ppm
		TWA: 19 mg/m ³

Component	CAS No	European Union	The United Kingdom	Germany
Benzenamine,	24544-04-5	Not listed	Not listed	Not listed
2,6-bis(1-methylethyl)-				
Aniline	62-53-3	Not listed	STEL: 3 ppm 15 min	TWA: 2 ppm (8 Stunden).
			STEL: 12 mg/m ³ 15 min	AGW - exposure factor 2
			TWA: 1 ppm 8 hr	TWA: 7.7 mg/m ³ (8
			TWA: 4 mg/m ³ 8 hr	Stunden). AGW - exposure
			Skin	factor 2
				TWA: 2 ppm (8 Stunden).
				MAK can occur as vapor and
				aerosol at the same time
				TWA: 7.7 mg/m ³ (8
				Stunden). MAK can occur as
				vapor and aerosol at the
				same time
				Höhepunkt: 4 ppm
				Höhepunkt: 15.4 mg/m ³
				Haut

ACGIH - Biological Exposure Indices

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Component	CAS No	ACGIH - Biological Exposure Indices		
Benzenamine,	24544-04-5	Not listed		
2,6-bis(1-methylethyl)-				
Aniline	62-53-3	0.5 mg/L		
		Medium: urine		
		Time: end of shift		
		Determinant: Aniline with hydrolysis		

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles)

Hand Protection Protective gloves

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Personal protective equipment Use only those certified by the Korea Occupational Safety and Health Administration. **Respiratory Protection** No protective equipment is needed under normal use conditions

<u>Hygiene Measures</u> Handle in accordance with good industrial hygiene and safety practice

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Environmental exposure controls Prevent product from entering drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color, No information available Liquid

etc.)

Odor Odorless

Odor Threshold No data available No information available

Melting Point/Range -45 °C / -49 °F Softening Point No data available

Boiling Point/Range 257 °C / 494.6 °F @ 760 mmHg

Flash Point 123 °C / 253.4 °F Method - No information available

Evaporation Rate No data available Flammability (solid,gas) Not applicable

Explosion Limits No data available

Vapor Pressure <0.01 mmHg @ 20 °C

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density 0.940

Bulk Density Not applicable Liquid

Water Solubility Insoluble practically insoluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

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Component	CAS No	log Pow
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	3.18
Aniline	62-53-3	0.91

Liquid

Autoignition Temperature
Decomposition Temperature
Viscosity
Explosive Properties
Oxidizing Properties

400 °C / 752 °F
No data available
No data available
No information available
No information available

Molecular Formula C12 H19 N Molecular Weight 177.29

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None known, based on information available

<u>Chemical Stability</u>
Stable under normal conditions.

2,6-Diisopropylaniline

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

Conditions to Avoid

Incompatible products. Excess heat.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

Information on expected route of exposure

Inhalation Not an expected route of exposure.

Ingestion No known effect based on information supplied.

Eyes Not an expected route of exposure.

Skin No known effect based on information supplied.

Information on Health Hazards

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Component	CAS No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	LD50 = 3204 mg/kg (No data available	No data available
		Rat)		
Aniline	62-53-3	LD50 = 440 mg/kg (Rat	LD50 = 442 mg/kg (Rat	1 mg/L (Rat) 4 h
))	1.82 mg/L (Rat) 4 h
				,

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

Component	CAS No	Test method	Test species	Study result
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	No data available	No data available	No data available
Aniline	62-53-3	No data available	No data available	No data available

(e) germ cell mutagenicity; No data available

Component	CAS No	Test method	Test species	Study result

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Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	No data available	No data available	No data available	
Aniline	62-53-3	No data available	No data available	No data available	

(f) carcinogenicity;

No data available

Component	CAS No	Test method	Test species / Duration	Study result
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	No data available	No data available	No data available
Aniline	62-53-3	No data available	No data available	No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	UK
Benzenamine, 2.6-bis(1-methylethyl)-	24544-04-5	Not listed				
Aniline	62-53-3	Group 2A	Not listed	A3	X	Not listed

IARC (International Agency for

IARC (International Agency for Research on Cancer)

Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

ACGIH: (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen

A1 - Known Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

(g) reproductive toxicity;

No data available

Component	CAS No	Test method	Test species / Duration	Study result
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	No data available	No data available	No data available
Aniline	62-53-3	No data available	No data available	No data available

No data available (h) STOT-single exposure;

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Other Adverse Effects No information available.

ſ	Component	CAS No	EU - Endocrine	EU - Endocrine	Japan - Endocrine
1			Disrupters Candidate	Disruptors - Evaluated	Disruptor Information
			List	Substances	
I	Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
	Aniline	62-53-3	Not applicable	Not applicable	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects The product contains following substances which are hazardous for the environment. Contains a substance which is:. Harmful to aquatic organisms.

Component	CAS No	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Benzenamine,	24544-04-5	Pimephales	EC50 = 15 mgL 48h	No data available	No data available
2,6-bis(1-methylethyl)-		promelas:			
		LC50=14mg/L 96h			
Aniline	62-53-3	Oncorhynchus	EC50 = 0.16 mg/L	No data available	EC50 = 425 mg/L 5

2,6-Diisopropylaniline

mykiss: LC50 = 48h min

mykiss: LC50 =	48h	min
10.96 mg/L 96h		EC50 = 488 mg/L 15
		min

Persistence and degradability

Persistence

Degradation in sewage treatment plant

Not readily biodegradable Persistence is unlikely.

Contains substances known to be hazardous to the environment or not degradable in waste

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water treatment plants.

Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Benzenamine, 2,6-bis(1-methylethyl)-	3.18	No data available
Aniline	0.91	No data available

<u>Mobility in soil</u> The product is insoluble and floats on water Spillage unlikely to penetrate soil . Is not likely

mobile in the environment due its low water solubility.

Ozone Depletion Potential

Component	CAS No	Ozone Depletion Potential
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not listed
Aniline	62-53-3	Not listed

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused

Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Do not empty into drains. Do not let this

chemical enter the environment.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport Not Regulated

IATA Not regulated

IMDG/IMO Not regulated

Marine Pollutant No hazards identified

Special Precautions for User No special precautions required

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend: X - Listed '-' - Not Listed

International Inventories

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Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
Benzenamine,	24544-04-5	-	Х	246-305-4	Х	-	Х	-	Х	Х	Х
2,6-bis(1-methylethyl)-											
Aniline	62-53-3	KE-01180	Х	200-539-3	Х	Х	-	X	Х	Х	Х

Component	CAS No	Seveso III Directive (2012/18/EC) - (2012/18/EC) - Qualifying Quantities		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Listed	Not applicable	Not applicable
Aniline	62-53-3	Listed	Not applicable	Not applicable

Korean National Regulations

Component	CAS No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	CMR risk	Ministry of Environment - Critically Controlled Substance
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	Annex 1 - KE-01180	Not applicable	CMR, STOT

Component	CAS No	Chemical Control Act - Acute Hazard to Human Health	Chemical Control Act - Chronic Hazard to Human Health	Chemical Control Act - Ecological Hazard
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	97-1-156 (>=25%)	97-1-156 (>=10%)	97-1-156 (>=25%)

Component	CAS No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act -	Chemical Control Act -	Chemical Control Act -
		Prohibited Chemicals	Use Restricted	Authorised Chemicals
			Chemicals	
Benzenamine,	24544-04-5	Not applicable	Not applicable	Not applicable
2,6-bis(1-methylethyl)-			7.7	
Aniline	62-53-3	Not applicable	Not applicable	Not applicable

Component	CAS No	Waste Control Law
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable
Aniline	62-53-3	> 10% (CCA) > 25% (CCA)

CCA = Chemical Control Act

Component	CAS No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable

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Aniline	62-53-3	Listed	Not applicable	Not applicable
Component	CAS No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	Listed	Listed	2 ppm TWA

Component	CAS No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable
Aniline	62-53-3	Not applicable	TWA: 2 ppm Skin	Not applicable

National Fire Association - Dangerous Substances Minimum quantity requiring a permit

Component	CAS No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable	5. Group 3 Petroleum (Insoluble) 2000 L	Not applicable	Not applicable
Aniline	62-53-3	Not applicable	Not applicable	Not applicable	5. Group 3 Petroleum (Insoluble) 2000 L	Not applicable	Not applicable

Control Parameters

Component	CAS No	Korea	ACGIH - Biological Exposure Indices
Benzenamine,	24544-04-5	Not listed	Not listed
2,6-bis(1-methylethyl)-			
Aniline	62-53-3	TWA: 2 ppm	0.5 mg/L
		Skin	Medium: urine
			Time: end of shift
			Determinant: Aniline with hydrolysis

US Management Information

OSHA - Occupational Safety and Health Administration

Not applicable

110t applicable						
Component	Component CAS No Specific		Specifically Regulated	Highly Hazardous Chemicals		
			Chemicals			
Benzenamine, 2,6-bis(1-meth	ylethyl)- 2454	14-04-5	Not applicable	Not applicable		
Aniline	62	-53-3	Not applicable	Not applicable		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355)

Component	CAS No	CERCLA Extremely Hazardous Substances RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Benzenamine, 2,6-bis(1-methylethyl)-	24544-04-5	Not applicable	Not applicable	Not applicable

2,6-Diisopropylaniline

Aniline 62-53-3 5000 lb 5000 lb 0.1 %

GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Based on available data, the classification criteria are not met.

H412 - Harmful to aquatic life with long lasting effects.

P273 - Avoid release to the environment. P501 - Dispose of contents/ container to an approved waste disposal plant.

SECTION 16: OTHER INFORMATION

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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Substances/EU List of Notified Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

POW - Partition coefficient Octanol:Water

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate

VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Health, Safety and Environmental Department **Prepared By**

Creation Date 11-Feb-2010 **Revision Date** 08-Aug-2025

Revision Number 7

Revision Summary SDS sections updated.

MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical **Substances and Safety Data Sheets)**

Disclaimer

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet