# SAFETY DATA SHEET



Revision date: 21-Nov-2023

**Revision Number** 3

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name ZELEC UN

**Product Code(s)** 000000016632

Other means of identification

UN number 3265

Recommended use of the chemical and restrictions on use

**Recommended use** Release agent.

For industrial use only.

Uses advised against No information available

**Supplier** 

Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia

Telephone Number: +61 3 9906 3000

### Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

# 2. HAZARDS IDENTIFICATION

# GHS Classification

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

#### **SIGNAL WORD**

Danger

# Label elements

Corrosion

Revision date: 21-Nov-2023

**Revision Number** 3



#### **Hazard statements**

H314 - Causes severe skin burns and eye damage

#### **Precautionary Statements - Prevention**

Do not breathe mist, vapours, spray.

Wash face, hands and any exposed skin thoroughly after handling

Wash eyes thoroughly after handling.

Wear protective gloves / protective clothing / eye protection / face protection

# **Precautionary Statements - Response**

Specific treatment (see First aid on this SDS)

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 CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

# **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification

Toxic to aquatic life

#### **General Hazards**

Poisons Schedule (SUSMP) None allocated

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical name	CAS No.	Weight-%
Phosphate Ester	CONFIDENTIAL	>95%
Alcohol, C10	112-30-1	1-<3%
1-Octanol	111-87-5	1-<3%

# 4. FIRST AID MEASURES

# **Description of first aid measures**

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor.

**Inhalation** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

physician if symptoms occur.

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

Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected

area. Immediate medical attention is required.

**000000016632** - **ZELEC UN** Revision date: 21-Nov-2023

Revision Number 3

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing and wash before reuse. Get immediate medical advice/attention.

**Ingestion** Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention immediately if symptoms occur.

#### Most important symptoms and effects, both acute and delayed

Symptoms Irritation/Corrosion. May cause redness and tearing of the eyes. Erythema (skin redness).

Burning.

# Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically. Can cause corneal burns.

# 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Solid water jet/stream may scatter and spread the fire.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Combustible

liquid.

Hazardous combustion products Carbon oxides.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Hazchem code 2X

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Evacuate

personnel to safe areas. Do not touch or walk through spilled material. Use personal

protective equipment as required. Wash thoroughly after handling.

For emergency responders Clear area of all unprotected personnel. Use personal protection recommended in Section

8.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Refer to protective measures listed in Sections 7 and 8.

#### Methods and material for containment and cleaning up

**000000016632** - **ZELEC UN** Revision date: 21-Nov-2023

Revision Number 3

Methods for containment Stop leak if you can do it without risk. Dike far ahead of spill to collect runoff water. Absorb

with earth, sand or other non-combustible material and transfer to containers for later

disposal. Keep out of drains, sewers, ditches and waterways.

**Methods for cleaning up**Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Use personal protective equipment as required. After cleaning, flush away traces with

water. Never return spill or leaks to original containers for re-use.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Ensure adequate

ventilation. Use personal protection equipment. Wash thoroughly after handling. Do not mix

with other chemicals.

**General hygiene considerations** Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when

using this product. Wash hands before breaks and immediately after handling the product.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep container closed when not in use.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and

transport requirements.

Incompatible materials Bases. Strong alkalis. Reducing agents.

Poisons Schedule (SUSMP) None allocated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

**Exposure Limits**No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

1-Octanol:  $8hr TWA = 265 mg/m^3 (50 ppm)$ 

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### **Appropriate engineering controls**

**Engineering controls** Ensure that eyewash stations and safety showers are close to the workstation location.

Apply technical measures to comply with the occupational exposure limits.

Revision date: 21-Nov-2023 Revision Number 3

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.











**Eye/face protection** Tight sealing safety goggles. If splashes are likely to occur:. Face protection shield.

**Skin and body protection** Wear suitable protective clothing. Overalls. Boots.

**Hand protection** Elbow-length impervious gloves.

**Respiratory protection** If determined by a risk assessment an inhalation risk exists, wear an organic

vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Color Pale Yellow

Odor No information available Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH1.8-3.2 (1% in water)None knownpH (as aqueous solution)No data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling range>100°CNone known

Flash point >93.9°C Pensky-Martens Closed Cup (PMCC)

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative density0.97-1 @25°CNone knownWater solubilityDispersibleNone knownSolubility(ies)No data availableNone known

**000000016632** - **ZELEC UN** Revision date: 21-Nov-2023

Revision Number 3

Partition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosity100-200 cP @25°CNone known

Other information

# 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** Non-reactive under normal conditions of use, storage and transport.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

**Possibility of hazardous reactions** May react with reducing agents.

**Conditions to avoid** 

Conditions to avoid Heat, flames and sparks.

Incompatible materials

Incompatible materials Bases. Strong alkalis. Reducing agents.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

Information on likely routes of exposure

**Product Information**No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

**Inhalation** May cause irritation.

**Eye contact** Causes serious eye damage.

**Skin contact** Causes burns.

**Ingestion** Can burn mouth, throat, and stomach.

Symptoms Irritation/Corrosion. May cause redness and tearing of the eyes. Erythema (skin redness).

Burning.

Revision date: 21-Nov-2023 Revision Number 3

#### Numerical measures of toxicity - Product Information

On basis of test data

 Oral LD50
 > 2000 mg/kg (rat)

 Dermal LD50
 > 2000 mg/kg (rabbit)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Alcohol, C10	= 4720 mg/kg (Rat)	= 3560 mg/kg ( Rabbit )	-
1-Octanol	> 3200 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	•

See section 16 for terms and abbreviations

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Causes burns.

Serious eye damage/eye irritation Causes serious eye damage.

**Respiratory or skin sensitization** Not a respiratory sensitizer.

**Germ cell mutagenicity** No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

(OSHA - Occupational Safety and Health Administration) (IARC - International Agency for Research on Cancer)

(NTP - National Toxicology Program).

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

**Chronic effects:** Prolonged inhalation may be harmful.

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

**Ecotoxicity** Keep out of waterways. Toxic to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Alcohol, C10	-	LC50: 2.2 - 2.5mg/L (96h,	-	EC50: =3mg/L (48h,
		Pimephales promelas)		Daphnia magna) EC50:
		LC50: 4.12 - 6.2mg/L		=11mg/L (24h, Daphnia
		(96h, Lepomis		magna)
		macrochirus) LC50:		-
		<5.6mg/L (96h,		
		Oncorhynchus mykiss)		
1-Octanol	EC50: =14mg/L (48h,	LC50: 11.4 - 12.9mg/L	-	EC50: 15 - 26mg/L (24h,

Revision date: 21-Nov-2023

Revision Number 3

Desmodesmus subspicatus)	(96h, Pimephales promelas) LC50: =17.68mg/L (96h,	Daphnia magna)
	Oncorhynchus mykiss)	

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

Component Information

Chemical name	Partition coefficient
Alcohol, C10	4.11
1-Octanol	3.15

**Mobility** 

**Mobility in soil** No information available.

Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

# 14. TRANSPORT INFORMATION

ADG

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and

Rail; DANGEROUS GOODS.

UN number 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (MIXED ALKYL ACID

**ORTHOPHOSPHATES**)

Hazard class 8
Packing group II
Hazchem code 2X

IATA

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN number 3265

UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (MIXED ALKYL ACID

**ORTHOPHOSPHATES**)

Transport hazard class(es) 8
Packing group | |

IMDG

000000016632 - ZELEC UN Revision date: 21-Nov-2023
Revision Number 3

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number 3265

UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (MIXED ALKYL ACID

**ORTHOPHOSPHATES**)

Transport hazard class(es) 8
Packing group II
IMDG EMS Fire F-A
IMDG EMS Spill S-B
Marine pollutant No

# 15. REGULATORY INFORMATION

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

#### **National regulations**

#### Australia

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

#### National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory
Alcohol, C10 - 112-30-1	20 MW Threshold category 2b total
	60000 MWH Threshold category 2b total
	1 tonne/h Threshold category 2a total
	25 tonne/yr Threshold category 1a total
	400 tonne/yr Threshold category 2a total
	2000 tonne/yr Threshold category 2b total
1-Octanol - 111-87-5	20 MW Threshold category 2b total
	60000 MWH Threshold category 2b total
	1 tonne/h Threshold category 2a total
	25 tonne/yr Threshold category 1a total
	400 tonne/yr Threshold category 2a total
	2000 tonne/yr Threshold category 2b total

#### **International Inventories**

All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals.

Leaend:

**AIIC- Australian Inventory of Industrial Chemicals** 

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

000000016632 - ZELEC UN

Revision date: 21-Nov-2023 Revision Number 3

#### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# 16. OTHER INFORMATION

Supplier Safety Data Sheet 12/2020

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Issuing Date: 21-Nov-2023

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their lxom representative or lxom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

**End of Safety Data Sheet**