

# SAFETY DATA SHEET VALOR EZE 480 SC Herbicide

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, July 2020.

#### SECTION 1: Identification: Product identifier and chemical identity

**Product identifier** 

Product name VALOR EZE 480 SC Herbicide

Synonyms; trade names VALOR SC Herbicide, Nufarm TERRAIN Flow Herbicide, Flumioxazin 480 SC Herbicide

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

**Application** Herbicide

**Uses advised against**No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier www.sumitomo-chem.com.au

Sumitomo Chemical Australia Pty Ltd

Level 5, 51 Rawson Street, EPPING, NSW 2121 (02) 8752 9000 (02) 8752 9099

Reception@sumitomo-chem.com.au

**Emergency telephone number** 

Emergency telephone 1800 033 111 (Australia) 0800 734 607 (New Zealand)

National emergency telephone Poisons Information Centre - Phone Australia 13 11 26; New Zealand 0800 764 766.

number

#### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Repr. 2 - H361d

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Label elements

Hazard pictograms





Signal word WARNING

Hazard statements H361d Suspected of damaging the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

#### VALOR EZE 480 SC Herbicide

**Precautionary statements** P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains flumioxazin (ISO)

#### Other hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

#### SECTION 3: Composition and information on ingredients

### **Mixtures**

# Other, non-hazardous ingredients

CAS number: —

flumioxazin (ISO) 48 %

CAS number: 103361-09-7

#### SECTION 4: First aid measures

#### Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms

52%

are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not

induce vomiting unless under the direction of medical personnel.

Skin Contact Rinse with water.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical

attention if any discomfort continues.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

# Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

InhalationNo specific symptoms known.IngestionNo specific symptoms known.Skin contactNo specific symptoms known.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

#### Indication of any immediate medical attention and special treatment needed

#### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapours.

#### Advice for firefighters

# Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

# Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

Hazchem Code 2Z

#### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be

taken without appropriate training or involving any personal risk. Do not touch or walk into

spilled material.

**Environmental precautions** 

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the

aquatic environment.

# Methods and material for containment and cleaning up

#### Methods for cleaning up We

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

#### Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### SECTION 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not

reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash

before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Store locked up. Keep only in the

original container. Keep container tightly closed, in a cool, well ventilated place. Keep

containers upright. Protect containers from damage.

**Storage class** Miscellaneous hazardous material storage.

Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

#### SECTION 8: Exposure controls and personal protection

#### Control parameters

#### Occupational exposure limits

flumioxazin (ISO)

National exposure standard

No value assigned for this specific material by Safe Work Australia

#### **Exposure controls**

#### Protective equipment









Personal protection Wear protective clothing.

**Eye/face protection** When mixing and loading wear face shield or goggles.

**Hand protection** Wear elbow-length chemical resistant gloves.

Other skin and body protection

Wear cotton overalls over normal clothing, buttoned to the neck and wrist and a washable hat.

Hygiene measures Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke

when using this product.

**Respiratory protection** No specific requirements are anticipated under normal conditions of use.

Environmental exposure

controls

Keep container tightly sealed when not in use.

#### VALOR EZE 480 SC Herbicide

#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** white to off white emulsion

Colour White/off-white.

**pH** 5.5 - 7.5

Relative density 1.14 - 1.18

Partition coefficient log Kow 2.55 @ 20oC

#### SECTION 10: Stability and reactivity

**Reactivity** See the other subsections of this section for further details.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### SECTION 11: Toxicological information

#### Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅o) LD50 > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅o) LD50: >5000 mg/kg bw in female rats

Acute toxicity - inhalation

Notes (inhalation LC₅o) LC50> 2.11 mg/L, Inhalation, Rat, (4hr)

Skin corrosion/irritation

Animal data Slightly irritating. (Rabbit)

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating. (Rabbit)

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

#### VALOR EZE 480 SC Herbicide

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

May damage the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard** 

Aspiration hazard Based on available data the classification criteria are not met.

General information Avoid contact during pregnancy/while nursing. The severity of the symptoms described will

vary dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin Contact** No specific symptoms known.

**Eye contact** No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

SECTION 12: Ecological information

**Toxicity** Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to

aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish Rainbow trout - LC50 2.3 mg ac/L

Technical active

96-h flow-through, mean measured

Acute toxicity - aquatic

Mysid shrimp - LC50 0.23 mg ac/L

invertebrates

Technical active

96h flow through, mean measured Waterflea EC50 5.9 mg ac/L

Technical active

48h flow-through, mean measured

Acute toxicity - aquatic plants Green alga - EC50 0.0011 mg ac/L

Technical active

120h static, initial measured

Acute toxicity - LC50corr >491 mg ac/kg dry soil

microorganisms Technical active

14d artificial soil, 10% peat

Eisenia fetida

#### VALOR EZE 480 SC Herbicide

Acute toxicity - terrestrial Oral LD50, 48 hour: >100 (Technical) µg a.i./bee, Apis Mellifera (Honeybee)

Contact LD50, 48 hour: >105 (Technical) µg a.i./bee, Apis Mellifera (Honeybee)

Oral LD50, 14 days: >2250 (Technical) mg ai/kg bw, Colinus Virginianus (Bobwhite Quail)

Dietary LC50, 8 day: >5620 (Technical) ppm, Anas Platyrhynchos (Mallard duck)

Reproduction study, 6 weeks: 1000 (Technical) ppm, Colinus Virginianus (Bobwhite Quail) Reproduction study, 21 weeks: 500 (Technical) ppm, Colinus Virginianus (Bobwhite Quail)

Chronic aquatic toxicity

Chronic toxicity - fish early life No

NOEC 0.0077 mg ac/L

stage

(reduced length and weight at 0.016 mg ac/L)

Technical active

87d ELS flow-through, mean measured

Oncorhynchus mykiss

NOEC 0.37 mg ac/L

(reduced weight & food consumption at 0.61 mg ac/L)

Technical active

21d flow-through, mean measured

Oncorhynchus mykiss

Chronic toxicity - aquatic invertebrates

NOEC 0.057 mg ac/L

(increased mortality at 0.11 mg ac/L)

Technical active

21d flow-through, mean measured.

Daphnia magna

NOEC 0.10 mg ac/L

(reduced growth at 0.20 mg ac/L)

Technical active

21d semi-static, nominal

Daphnia magna

Toxicity to soil NOEC 1.6 mg ac/kg dry soil

(<25% effect at highest test concentration) Nitrogen and carbon mineralisation

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient log Kow 2.55 @ 20oC

Mobility in soil

**Mobility** No data available.

Adsorption/desorption

coefficient

Mean Koc 889 mL/g Technical

Henry's law constant 1.45 × 10-1 Pa m3/mol @ 20-22oC Technical

Other adverse effects

Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

#### Waste treatment methods

#### General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### Disposal methods

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean

containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

#### SECTION 14: Transport information

#### General

Environmental Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packages that do not incorporate a receptacle exceeding 500 kg (L); or (b) IBCs. (ADG Special Provision AU01) Not a dangerous good for transport by Road and Rail according to ADG 7 code

#### **UN number**

3082

#### **UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### Transport hazard class(es)

9

#### Packing group

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# Special precautions for user

Hazchem Code 2Z

#### SECTION 15: Regulatory information

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

National regulations APVMA Approval Number: 92955
Schedule (SUSMP) Schedule 7. Dangerous Poison.

#### Inventories

### Australia - AIIC

None of the ingredients are listed or exempt.

#### SECTION 16: Any other relevant information

Abbreviations and acronyms used in the safety data sheet

ADG: Australian dangerous goods code

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service. ATE: Acute toxicity estimate.

LC₅o: Lethal concentration to 50 % of a test population.

LD₅o: Lethal dose to 50% of a test population (median lethal dose).

EC<sub>50</sub>: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance. vPvB: Very persistent and very bioaccumulative.

Classification abbreviations

and acronyms

Repr. = Reproductive toxicity

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

**Training advice** Only trained personnel should use this material.

Revision date 8/05/2023

Revision 4

Supersedes date 8/05/2023

**SDS No.** 4938

Hazard statements in full H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.