

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

SECTION 1. IDENTIFICATION

Product Identifier : VERSENE™ 100 XL Chelating Agent
Product code : 00000000016154126
Synonyms : No data available

Supplier or Repackaging Details

Company : Univar Solutions USA
Address : 3250 Lacey Rd., Suite 600
Downers Grove, IL 60515
United States of America (USA)

Manufactured By : THE DOW CHEMICAL COMPANY

Emergency telephone number:

Univar Solutions USA:-CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Phone: 1-855-429-2661
Regulatory Information Number: 1-855-429-2661
Email: SDSNA@univarsolutions.com

Recommended use of the chemical and restrictions on use

Recommended use : Chelating agent

SECTION 2. HAZARD IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Corrosive to metals : Category 1

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity : Category 2
- repeated exposure (Inhalation)

Other hazards

None known.

Hazards associated with a change in physical form:

No data available

GHS label elements

SAFETY DATA SHEET

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VERSENE™ 100 XL Chelating Agent

Version 1.6	Revision Date: 08/14/2026	SDS Number: 100000005154	Date of last issue: 04/02/2025 Date of first issue: 06/15/2015
----------------	------------------------------	-----------------------------	---

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

:

Prevention:

P234 Keep only in original container.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 + P310 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/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards resulting from a reaction with other chemicals under normal conditions of use:

No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

CAS-No.	Chemical name	Weight percent	Trade secret
64-02-8	Tetrasodium ethylenediaminetetraacetate	30 - 50	-
1310-73-2	Sodium hydroxide	1 - 2	-

Actual concentration is withheld as a trade secret

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST-AID MEASURES

- | | |
|---|--|
| General advice | : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Take victim immediately to hospital. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : None known. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|------------------------------|---|
| Suitable extinguishing media | : Water spray
Foam
Dry chemical
Carbon dioxide (CO2) |
| Unsuitable extinguishing | : High volume water jet |

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VERSENE™ 100 XL Chelating Agent

Version 1.6	Revision Date: 08/14/2026	SDS Number: 100000005154	Date of last issue: 04/02/2025 Date of first issue: 06/15/2015
----------------	------------------------------	-----------------------------	---

media

Hazardous combustion products : Nitrogen oxides (NOx)
Carbon oxides

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment and precautions for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Precautions for safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.

SAFETY DATA SHEET

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VERSENE™ 100 XL Chelating Agent

Version 1.6 Revision Date: 08/14/2026 SDS Number: 100000005154 Date of last issue: 04/02/2025
Date of first issue: 06/15/2015

Electrical installations / working materials must comply with the technological safety standards.

Storage period : 24 Months

Packaging material : Unsuitable material: Zinc, Aluminium, Carbon steel, Metal (other than steel or aluminium)
Suitable material: Plastic material, including expanded plastics material, Stainless steel

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: liquid
Colour	: colourless, yellow
Odour	: slight, ammoniacal
Odour Threshold	: No data available
pH	: 11.0 - 11.8 @ 1 % @ 20 - 25 °C (68 - 77 °F)
Freezing point (Freezing Point)	: <= -25 °C (<= -13 °F)
Boiling point (Boiling point/boiling range)	: 106 - 107 °C (223 - 225 °F) (1013 hPa)
Flash point	: Not applicable
Evaporation rate	: Estimated < 0.8 (Butyl Acetate = 1)
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: similar to water
Relative vapour density	: No data available
Relative density	: 1.26 - 1.30 @ 25 °C (77 °F) Reference substance: (water = 1)
Density	: No data available
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: < 0
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: Estimated 19 mPa.s @ 20 °C (68 °F)
Viscosity, kinematic	: 11 mm ² /s @ 20 °C (68 °F)
Particle characteristics	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: aluminum

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

		Copper
		Copper alloys
		Nickel
		Organic materials
		Oxidizing agents
		Strong acids
		Zinc
		Acids
		aluminum
		Halogenated compounds
		Metals
		organic nitro compounds
		Oxidizing agents
		Strong bases
		Zinc
Hazardous decomposition products	:	Ammonia
		Nitrogen oxides (NOx)
		Carbon oxides
		metal oxides
		No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	Assessment: The component/mixture is moderately toxic after short term inhalation.

Components:

64-02-8:

Acute oral toxicity	:	LD50 (Rat): 630 mg/kg Method: Standard Acute Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	:	LC50 (Rat): 10 mg/l Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	Remarks: No data available

Skin corrosion/irritation

Components:

64-02-8:

Species	:	Rabbit
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SAFETY DATA SHEET

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VERSENE™ 100 XL Chelating Agent

Version 1.6	Revision Date: 08/14/2026	SDS Number: 100000005154	Date of last issue: 04/02/2025 Date of first issue: 06/15/2015
----------------	------------------------------	-----------------------------	---

Result : No skin irritation

1310-73-2:

Species : Rabbit
Result : Causes severe burns.

Serious eye damage/eye irritation

Components:

64-02-8:

Species : Rabbit
Result : Risk of serious damage to eyes.

1310-73-2:

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

64-02-8:

Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.

Assessment : Harmful if swallowed., Causes serious eye damage.

Germ cell mutagenicity

Components:

64-02-8:

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

64-02-8:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

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.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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.

Reproductive toxicity

Components:

64-02-8:

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - repeated exposure

Product:

Exposure routes : Inhalation
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Components:

64-02-8:

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes serious eye damage.

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

64-02-8:

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

64-02-8:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 486 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 625 mg/l
Exposure time: 24 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 2.77 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

1310-73-2:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia): 40.4 mg/l
Exposure time: 48 h
Test Type: Immobilization

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., Corrosive liquid, basic, organic, n.o.s. (TETRASODIUM ETHYLENEDIAMINETETRAACETATE, SODIUM HYDROXIDE)
Class	:	8
Packing group	:	III
Labels	:	Corrosive
Packing instruction (cargo aircraft)	:	856
Packing instruction (passenger aircraft)	:	852

IMDG-Code

UN number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TETRASODIUM ETHYLENEDIAMINETETRAACETATE, SODIUM HYDROXIDE)
Class	:	8
Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

49 CFR Road

UN/ID/NA number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., Corrosive liquid, basic, organic, n.o.s. (TETRASODIUM ETHYLENEDIAMINETETRAACETATE, SODIUM HYDROXIDE)
Class	:	8
Packing group	:	III
Labels	:	CORROSIVE
ERG Code	:	153
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

CAS-No.	Components	Component RQ (lbs)	Calculated product RQ (lbs)
1310-73-2	Sodium hydroxide	1000	58823

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute Health Hazard

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1310-73-2	Sodium hydroxide	>= 1 - < 5 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1310-73-2	Sodium hydroxide	>= 1 - < 5 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

1310-73-2	Sodium hydroxide
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Pennsylvania Right To Know

7732-18-5	Water
64-02-8	Tetrasodium ethylenediaminetetraacetate
1310-73-2	Sodium hydroxide

Maine Chemicals of High Concern

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version 1.6	Revision Date: 08/14/2026	SDS Number: 100000005154	Date of last issue: 04/02/2025 Date of first issue: 06/15/2015
----------------	------------------------------	-----------------------------	---

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California List of Hazardous Substances

1310-73-2 Sodium hydroxide

California Permissible Exposure Limits for Chemical Contaminants

1310-73-2 Sodium hydroxide

The components of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	not determined
CA. DSL	:	All components of this product are on the Canadian DSL
ENCS	:	not determined
KECI	:	not determined
PICCS	:	not determined
IECSC	:	not determined
NZIoC	:	not determined

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

19019-43-3	Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, sodium salt (1:3)	See 40 CFR § 721.3565; Final Rule
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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

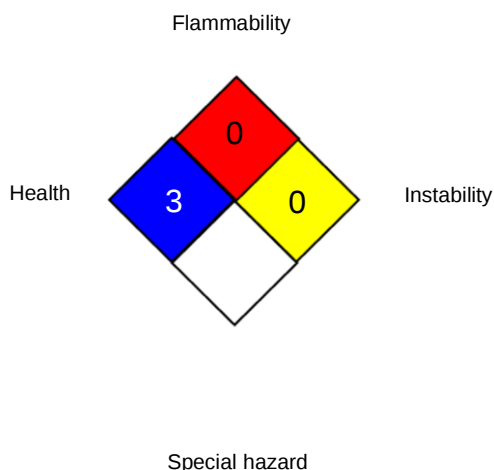
Version
1.6

Revision Date:
08/14/2026

SDS Number:
100000005154

Date of last issue: 04/02/2025
Date of first issue: 06/15/2015

NFPA 704:



HMIS® IV:

HEALTH		3
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / C	: Ceiling limit
NIOSH REL / C	: Ceiling value not be exceeded at any time.
OSHA P0 / C	: Ceiling limit
OSHA Z-1 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



VERSENE™ 100 XL Chelating Agent

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2025
1.6	08/14/2026	100000005154	Date of first issue: 06/15/2015

NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 08/14/2026

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.

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