

Safety Data Sheet
VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product name** : VERSENOL™ 120 Chelating Agent**Recommended use of the chemical and restrictions on use**

Recommended use : Chelating agent

Supplier or Repackaging Details**Company** : Univar Solutions USA
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)**Manufactured By** : THE DOW CHEMICAL COMPANY**Emergency telephone number:**

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Corrosive to metals : Category 1

Skin irritation : Category 2

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.Precautionary statements : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

P337 + P313 If eye irritation persists: 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 container with a resistant inner liner.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
139-89-9	Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, sodium salt (1:3)	50 - 70
1310-73-2	Sodium hydroxide	5 - 10
5064-31-3	Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)	5 - 10

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 : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
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.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

Most important symptoms and effects, both acute and delayed

If symptoms persist, call a physician.
Take victim immediately to hospital.
: Causes skin irritation.
Causes serious eye irritation.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)
Dry powder
Water mist
Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Smoke
Irritating fumes or substances may form.
toxic fumes
Nitrogen oxides (NOx)
Carbon oxides
Ammonia

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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.

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

- Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
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.
Electrical installations / working materials must comply with the technological safety standards.

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
		C	2 mg/m3	CAL PEL

Personal protective equipment

- Respiratory protection : 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. In the case of vapour formation use a respirator with an approved filter.

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.

Safety Data Sheet**VERSENOL™ 120 Chelating Agent**

Version 1.3

Revision Date: 07/29/2025

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid, Aqueous solution
Colour : colourless, yellow
Odour : mild
Odour Threshold : No data available
pH : Estimated 10 - 11.8 @ 1 %
Freezing Point (Freezing Point) : -34 - 25 °C (-29 - 77 °F)
Boiling Point (Boiling point/boiling range) : 107 °C (225 °F)
(1013 hPa)
Flash point : > 100 °C (> 212 °F)
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 : No data available
Relative vapour density : No data available
Relative density : 1.29 - 1.3 @ 25 °C (77 °F)
Reference substance: (water = 1)
Density : 8.5133 lb/gal
Solubility(ies)
Water solubility : completely miscible
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : log Pow: -5.475
Auto-ignition temperature : No data available
Thermal decomposition : No data available
Viscosity
Viscosity, kinematic : 27.2 mm²/s @ 20 °C (68 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Corrosive to metals
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials : Acids

Safety Data Sheet
VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

Aluminium
Metals
Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: 2,751 mg/kg
Acute toxicity estimate: 2,541 mg/kg

Components:**139-89-9:**

Acute oral toxicity : LD50 (Rat): 1,780 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

5064-31-3:

Acute oral toxicity : LD50 (Rat, male and female): 1,600 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Skin corrosion/irritation

Causes skin irritation.

Components:**139-89-9:**

Species: Rabbit
Result: Causes burns.

1310-73-2:

Species: Rabbit
Result: Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:**139-89-9:**

Species: Bovine cornea
Result: Risk of serious damage to eyes.

1310-73-2:

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

5064-31-3:

Safety Data Sheet
VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified due to lack of data.
Respiratory sensitisation: Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

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

Components:**5064-31-3:**

Species: Rat, (male and female)
Application Route: Oral
Exposure time: 104 wks
Dose: 0, 9.2, 92, 921 mg/kg/d
LOAEL: 92 mg/kg body weight

Result: evidence of carcinogenic activity
Remarks: Category 2

Carcinogenicity - Assessment : Suspected human carcinogens
IARC Group 2B: Possibly carcinogenic to humans

5064-31-3 Glycine, N,N-
bis(carboxymethyl)-, sodium salt
(1:3)

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

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

Further information**Product:**

Remarks: No data available

Safety Data Sheet**VERSENOL™ 120 Chelating Agent**

Version 1.3

Revision Date: 07/29/2025

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****1310-73-2:**

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

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia): 40.38 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: Immobilization

5064-31-3:

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 91.5 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test

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 : No data available

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 Uni-

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

var Solutions ChemCare: 1-800-637-7922

Contaminated packaging

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (GLYCINE, N-[2-[BIS(CARBOXYMETHYL)AMINO]ETHYL]-N-(2-HYDROXYETHYL)-, SODIUM SALT (1:3), SODIUM HYDROXIDE), 8, III

IATA (International Air Transport Association):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (GLYCINE, N-[2-[BIS(CARBOXYMETHYL)AMINO]ETHYL]-N-(2-HYDROXYETHYL)-, SODIUM SALT (1:3), SODIUM HYDROXIDE), 8, III

IMDG (International Maritime Dangerous Goods):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (GLYCINE, N-[2-[BIS(CARBOXYMETHYL)AMINO]ETHYL]-N-(2-HYDROXYETHYL)-, SODIUM SALT (1:3), SODIUM HYDROXIDE), 8, III, Flash Point:> 100 °C(> 212 °F)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	20000

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

: Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation
Carcinogenicity

SARA 302

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

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.

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

Clean Air Act

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 I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

5064-31-3 Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

Pennsylvania Right To Know

7732-18-5 Water

139-89-9 Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)-, sodium salt (1:3)

1310-73-2 Sodium hydroxide

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.

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

TSCA : All substances listed as active on the TSCA inventory

AIIC : not determined

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

Safety Data Sheet

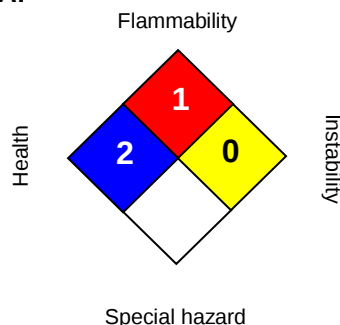
VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 07/29/2025

Material number:

16192425, 16187972, 16178824, 16153951, 16153461, 16153173

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances

Safety Data Sheet

VERSENOL™ 120 Chelating Agent

Version 1.3

Revision Date: 07/29/2025

MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		