



Safety Data Sheet (SDS) 3549

SDS Revision Date: 02/20/2024

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity 3549

Alternate Names 3549

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

Intended use Contact ChemStation representative.

Application Method Contact ChemStation representative.

1.3. Details of the supplier of the safety data sheet

Company Name ChemStation Philadelphia
415 Boot Rd., STE B
Downingtown, PA 19335

Emergency

CHEMTREC (USA) (800) 424-9300

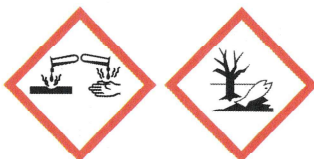
Customer Service: ChemStation Philadelphia (484) 696-1431

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Met. Corr. 1;H290	May be corrosive to metals.
Acute Tox. 5;H303	May be harmful if swallowed. (Note: this GHS classification was not adopted by US OSHA).
Skin Corr. 1A;H314	Causes severe skin burns and eye damage.
Aquatic Acute 1;H400	Very toxic to aquatic life.

2.2. Label elements



Danger

H290 May be corrosive to metals.

H303 May be harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

[Prevention]:

P234 Keep only in original container.

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

[Storage]:

P405 Store locked up.

P406 Store in a corrosive resistant, container with a resistant inner liner.

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

3. Composition/information on ingredients

Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Sodium hydroxide CAS Number: 0001310-73-2	10 - 25	Skin Corr. 1A;H314 Met. Corr. 1;H290	[1][2]
Sodium hypochlorite CAS Number: 0007681-52-9	1.0 - 10	Skin Corr. 1B;H314 Aquatic Acute 1;H400 Eye Dam. 1;H318	[1]
Dimethyldodecylamine oxide CAS Number: 0001643-20-5	1.0 - 10	Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Acute 1;H400	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

Section 4. First-aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed	
Overview	No specific symptom data available. Check section 2.2 (GHS Label Elements) for further details.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Keep only in original container.

Do not breathe dust, fume, mist, vapors or spray.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. 154

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

8.1. Control Parameters - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Exposure

CAS No.	Ingredient	Source	Value
0001310-73-2	Sodium hydroxide	OSHA	TWA 2 mg/m3
		ACGIH	Ceiling: 2 mg/m3
		NIOSH	C 2 mg/m3
		Supplier	No Established Limit
0001643-20-5	Dimethyldodecylamine oxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007681-52-9	Sodium hypochlorite	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0001310-73-2	Sodium hydroxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001643-20-5	Dimethyldodecylamine oxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007681-52-9	Sodium hypochlorite	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

Eyes

Wear approved eye protection. The use of a face shield is also recommended for skin protection in the area of the eyes. An eye wash station is suggested as a good workplace practice.

Skin

Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical Impervious Gloves

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

Section 9. Physical and chemical properties

Appearance	Pale yellow liquid
Odor	Chlorine
Odor threshold	Not Measured
pH	13.7 - 14.0
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	212 deg F
Flash Point	>200 degrees F PMCC (non-flammable)
Evaporation rate (Ether = 1)	0.33
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Determined
Vapor Density	Not Determined
Relative Density	1.151 - 1.161
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Foaming	High

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Any acidic material, ammonia, urea, oxidizable materials and metals such as nickel, copper, tin, aluminum and iron.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Accute Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Sodium hydroxide - (1310-73-2)	325.00, Rabbit - Category: 4	No data available	No data available	No data available	No data available
Sodium hypochlorite - (7681-52-9)	1,100.00, Rat - Category: 4	, Rabbit - Category: NA	10.50, Rat - Category: 4	No data available	No data available

Dimethyldodecylamine oxide - (1643-20-5)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available	No data available	No data available
Classification	Category	Hazard Description			
Acute toxicity (oral)	5	May be harmful if swallowed. (Note: this GHS classification was not adopted by US OSHA).			
Acute toxicity (dermal)	---	Not Applicable			
Acute toxicity (inhalation)	---	Not Applicable			
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage.			
Serious eye damage/irritation	---	Not Applicable			
Respiratory sensitization	---	Not Applicable			
Skin sensitization	---	Not Applicable			
Germ cell mutagenicity	---	Not Applicable			
Carcinogenicity	---	Not Applicable			
Reproductive toxicity	---	Not Applicable			
STOT-single exposure	---	Not Applicable			
STOT-single exposure	---	Not Applicable			
STOT-repeated exposure	---	Not Applicable			
Aspiration hazard	---	Not Applicable			

Section 12. Ecological information

12.1. Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

No additional information provided for this product. See Section 3 for chemical specific data.

Very toxic to aquatic life.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sodium hydroxide - (1310-73-2)	125.00, Gambusia affinis	40.40, Ceriodaphnia sp.	Not Available
Sodium hypochlorite - (7681-52-9)	0.08, Pimephales promelas	0.032, Daphnia magna	0.40 (72 hr), Dunaliella primolecta
Dimethyldodecylamine oxide - (1643-20-5)	31.80, Danio rerio	9.50, Daphnia magna	0.86 (72 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability

This product is fully biodegradable.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

14.1. UN number	NA1760
14.2. UN proper shipping name	Compound, Cleaning, Liquid, (Sodium Hydroxide)
14.3. Transport hazard class(es)	8
14.4. Packing group	III

Section 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
EPCRA 311/312 Chemicals and RQs (lbs):	
Sodium hydroxide (1,000.00)	
Sodium hypochlorite (100.00)	
EPCRA 302 Extremely Hazardous : (No Product Ingredients Listed)	
EPCRA 313 Toxic Chemicals: (No Product Ingredients Listed)	
Proposition 65 - Carcinogens (>0.0%): (No Product Ingredients Listed)	
Proposition 65 - Developmental Toxins (>0.0%): (No Product Ingredients Listed)	
Proposition 65 - Female Repro Toxins (>0.0%): (No Product Ingredients Listed)	
Proposition 65 - Male Repro Toxins (>0.0%): (No Product Ingredients Listed)	
N.J. RTK Substances (>1%):	
Sodium hydroxide	
Sodium hypochlorite	
Penn RTK Substances (>1%):	
Sodium hydroxide	
Sodium hypochlorite	

Section 16. Other information

Issue Date	04/09/2015
Revision History	04/09/2015
	05/28/2015
	10/14/2015
	04/06/2016
	05/06/2016
	08/30/2016
	05/20/2017
	09/01/2018
	09/15/2018
	09/14/2019
	05/05/2022
	12/03/2022

03/25/2023
04/08/2023

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The full text of the phrases appearing in section 3 is:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

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