

Issue Date No data available

# SAFETY DATA SHEET

Revision Date 23-Oct-2018 Version 4

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Code 23385

Product Name Orion 23 ES 9000

Other means of identification

Recommended use of the chemical and restrictions on use

Use only for the purpose on the product label.

Details of the supplier of the safety data sheet

Manufacturer / Manufactured For

Seatex, LLC 445 TX Hwy 36 Rosenberg, TX 77471 Phone: (713) 357-5300

Emergency telephone number

24 Hour Emergency Phone Number: 1-800-535-5053

# 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

#### Label elements

### **Emergency Overview**

### Danger

### Hazard statements

May be harmful if swallowed Causes severe skin burns and eye damage



Appearance Yellow Physical state Liquid Odor Earthy scent

### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

### **Precautionary Statements - Response**

Specific Treatment (See Section 4 on the SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation persists or burns occur, get medical attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink plenty of water. See a physician immediately.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Keep from freezing. Keep away from water, metals, acids, organic halogens, oxidizing material, glycols, reducing sugars (fructose, galactose) and organic nitro compounds. Keep out of reach of children.

#### **Precautionary Statements - Disposal**

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

### Hazards not otherwise classified (HNOC)

#### Other Information

**Unknown Acute Toxicity** 

0.3% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Hydroxide	1310-73-2	10-30	*
Tetrasodium EDTA	64-02-8	3-7	*
Trisodium nitrilotriacetate	5064-31-3	.1-1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. If irritation persists or burns occur, get medical attention. For severe burns, immediate

medical attention is required.

Eye contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes.

**Inhalation** Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention/advice.

**Self-protection of the first aider**Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

Symptoms Causes severe skin burns and eye damage. Ingestion causes acute irritation and burns to

the mucous membranes of the mouth, trachea, esophagus and stomach.

# Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dilute spilled material with dilute acetic acid (vinegar) to less than pH of 10. Soak up with

inert absorbent material. Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

Incompatible materials Keep away from water, metals, acids, organic halogens, oxidizing material, glycols,

reducing sugars (fructose, galactose) and organic nitro compounds. Strong acids.

Aluminum.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Showers, Eyewash stations & Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators or air purifying respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid
Appearance Yellow
Odor Earthy scent

Odor threshold No Information available

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

**pH** 12.5 - 13.5 1% solution

Specific Gravity 1.24

Viscosity No Information available Remarks

Melting point/freezing point

No Information available

Boiling point / boiling range

No Information available

Flash point > 331 ° F

**Evaporation rate** No Information available Flammability (solid, gas) No Information available **Upper flammability limit:** No Information available No Information available Lower flammability limit: No Information available Vapor pressure Vapor density No Information available Water solubility No Information available **Partition Coefficient** No Information available

(n-octanol/water)

Autoignition temperature No Information available No Information available

Other Information

Density Lbs/Gal

VOC Content (%)

No Information available

No Information available

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

Contact with moisture or water may generate sufficient heat to ignite nearby combustible material. Contact with metals may evolve flammable hydrogen gas.

#### Conditions to avoid

Keep from any possible contact with water. Exposure to air or moisture over prolonged periods. Elevated temperature.

### **Incompatible materials**

Keep away from water, metals, acids, organic halogens, oxidizing material, glycols, reducing sugars (fructose, galactose) and organic nitro compounds. Strong acids. Aluminum.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Oxides of carbon. Toxic fumes of sodium oxide.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information No data available

**Inhalation** Causes burns.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin Contact** The product causes burns of eyes, skin and mucous membranes.

**Ingestion** Causes burns. May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trisodium nitrilotriacetate 5064-31-3	= 1100 mg/kg (Rat)	-	> 5 mg/L (Rat)4 h

#### Information on toxicological effects

**Symptoms** No Information available.

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

Corrosivity Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to

eyes.

**Sensitization Germ cell mutagenicity**No Information available.
No Information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Trisodium nitrilotriacetate	-	Group 2B	-	X
5064-31-3		·		

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No Information available.
No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects. EYES, Respiratory system, Skin.

Target organ effects EYES, Respiratory system, Skir

Aspiration hazard No Information available.

# Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 

0.3% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

9.64% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Hydroxide		45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	
PROPRIETARY	-	> 100: 96 h Rainbow Trout mg/L	-
		LC50	
Tetrasodium EDTA	1.01: 72 h Desmodesmus	59.8: 96 h Pimephales promelas	610: 24 h Daphnia magna mg/L
64-02-8	subspicatus mg/L EC50	mg/L LC50 static 41: 96 h Lepomis	EC50
		macrochirus mg/L LC50 static	
Sodium Chloride	-	5560 - 6080: 96 h Lepomis	340.7 - 469.2: 48 h Daphnia magna
7647-14-5		macrochirus mg/L LC50	mg/L EC50 Static 1000: 48 h
		flow-through 12946: 96 h Lepomis	Daphnia magna mg/L EC50
		macrochirus mg/L LC50 static 6020	
		- 7070: 96 h Pimephales promelas	
		mg/L LC50 static 7050: 96 h	
		Pimephales promelas mg/L LC50 semi-static 4747 - 7824: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 6420 - 6700: 96 h	
		Pimephales promelas mg/L LC50	
		static	
Trisodium nitrilotriacetate	560 - 1000: 96 h Chlorella vulgaris	93 - 170: 96 h Pimephales promelas	560 - 1000: 48 h Daphnia magna
5064-31-3	mg/L EC50	mg/L LC50 flow-through 252: 96 h	mg/L LC50
0004 01 0	1119/2 2000	Lepomis macrochirus mg/L LC50	mg/L 2000
		560 - 1000: 96 h Oryzias latipes	
		mg/L LC50 semi-static 72 - 133: 96	
		h Oncorhynchus mykiss mg/L LC50	
		static 560 - 1000: 96 h Poecilia	
		reticulata mg/L LC50 560 - 1000: 96	
		h Poecilia reticulata mg/L LC50	
		semi-static 470: 96 h Pimephales	
		promelas mg/L LC50 static 175 -	
		225: 96 h Lepomis macrochirus	
		mg/L LC50 static 560 - 1000: 96 h	
		Oryzias latipes mg/L LC50 114: 96	
		h Pimephales promelas mg/L LC50	
Sodium Sulfate	-	3040 - 4380: 96 h Lepomis	2564: 48 h Daphnia magna mg/L
7757-82-6		macrochirus mg/L LC50 static	EC50 630: 96 h Daphnia magna
		13500: 96 h Lepomis macrochirus	mg/L EC50
		mg/L LC50 13500 - 14500: 96 h	
		Pimephales promelas mg/L LC50	
		6800: 96 h Pimephales promelas mg/L LC50 static	
Panzona C10 16 alloyl dominatives	1000: 96 h Pseudokirchneriella	1000: 96 h Oncorhynchus mykiss	0.000: 48 h Donhaid magna ma/l
Benzene, C10-16-alkyl derivatives 68648-87-3	subcapitata mg/L EC50	mg/L LC50	0.009: 48 h Daphnia magna mg/L EC50
00040-07-3	Subcapitata Hig/L ECOU	IIIg/L LC30	E030

# Persistence and degradability

No Information available.

# **Bioaccumulation**

No Information available.

Other adverse effects No Information available.

# 13. DISPOSAL CONSIDERATIONS

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Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide	Toxic
1310-73-2	Corrosive

### 14. TRANSPORT INFORMATION

The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

#### DOT

**DOT Proper Shipping name** UN1760, Corrosive Liquid, n.o.s. (contains Sodium hydroxide and

ethylenediaminetetraacetic acid, tetrasodium salt), 8, PG II

# 15. REGULATORY INFORMATION

### **International Inventories**

**TSCA** Complies Complies **DSL/NDSL EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply Does not comply **KECL** Does not comply **PICCS AICS** Does not comply

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List.

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
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	Quantities			Substances
Sodium Hydroxide	1000 lb	-	-	X
1310-73-2				

# CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide	1000 lb	=	RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide 1310-73-2	X	X	X
Sodium Sulfate 7757-82-6	-	X	X

### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATIO	N
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Health hazards 3 Flammability 1 Physical hazards 1 Personal protection X

#### Legend

N/A - Not Applicable N/E - Not Established N/D - Not Determined N/K - Not Known

Revision Date 23-Oct-2018

Revision Note No Information available

**Disclaimer** 

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.

**End of Safety Data Sheet**