# SAFETY DATA SHEET

Issue Date 09-Aug-2000 Revision Date 27-May-2015 Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Code 13780

Product Name Classic II (DM-5)

#### 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

Ross Chemical Systems, Inc. PO Box 523 Altoona, IA 50009 Phone: (515) 244-1788

Emergency telephone number

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

# 2. HAZARDS IDENTIFICATION

# Classification

Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Category 5
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3

### Label elements

### **Emergency Overview**

### Danger

#### Hazard statements

May be harmful if swallowed May be harmful in contact with skin Harmful if inhaled Causes severe skin burns and eye damage Suspected of causing cancer Harmful to aquatic life with long lasting effects



Appearance White Physical state Powder Odor Odorless

#### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. 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. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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

#### **Precautionary Statements - Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from reactive metals and acids. Keep locked up and out of the 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

2.5% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Carbonate	497-19-8	30-60	*
Sodium Hydroxide	1310-73-2	10-30	*
Sodium Tripolyphosphate	7758-29-4	10-30	*
Sodium Metasilicate	6834-92-0	3-7	*
Nitrilotriacetic Acid, Trisodium Salt	18662-53-8	1-5	*
Alcohols, C6-10, ethoxylated propoxylated	68987-81-5	1-5	*
Tetrasodium Pyrophosphate	7722-88-5	1-5	*
Sodium Dichloroisocyanurate, Dihydrate	51580-86-0	1-5	*
Sodium Trimetaphosphate	7785-84-4	.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. Wash contaminated clothing before reuse. If irritation persists or burns

occur, get medical attention.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub

affected area. Immediate medical attention is required.

**Inhalation** Move to fresh air. Call a physician or poison control center immediately. If breathing is

difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical

attention immediately.

Ingestion Immediate medical attention is required. Rinse mouth. Do NOT induce vomiting. Drink

plenty of water. Never give anything by mouth to an unconscious person.

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** Irritation or burning to mucous membranes. Causes severe skin burns and eye damage.

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 Avoid creating dust. Sweep up and shovel into suitable containers for disposal. Dilute

residual material with dilute acetic acid (vinegar) to pH of less than 10.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation,

wear suitable respiratory equipment.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers. Keep out of the reach of children.

**Incompatible materials** Strong acids. Aluminum. Zinc.

### 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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m³ Ceiling: 2 mg/m³
Tetrasodium Pyrophosphate 7722-88-5	-	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m³

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 Apply technical measures to comply with occupational exposure limits. Eyewash stations.

Showers.

#### Individual protection measures, such as personal protective equipment

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

**Skin and body protection**Wear chemical resistant gloves. Other protective equipment not required under normal use.

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. Avoid contact with skin, eyes or clothing. Wear

suitable gloves and eye/face protection. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Powder Appearance White Odor Odorless

Odor threshold No Information available

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

**pH** 12.5 - 13.5 1% solution

Specific Gravity N/A

ViscosityNo Information availableMelting point/freezing pointNo Information available

Boiling point / boiling range N/A Flash point N/A Evaporation rate N/A

Flammability (solid, gas) No Information available

Upper flammability limit: N/A
Lower flammability limit: N/A
Vapor pressure N/A
Vapor density N/A
Water solubility N/A

Partition Coefficient No Information available

(n-octanol/water)

Autoignition temperature

No Information available
No Information available

**Other Information** 

Density Lbs/Gal No Information available VOC Content (%) No Information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

Contact with metals in presence of moisture will produce hydrogen gas, which can form explosive mixture in air.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods. Elevated temperature.

#### Incompatible materials

Strong acids. Aluminum. Zinc.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides.

# 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** May be harmful in contact with skin.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m³ (Rat) 2 h
Sodium Hydroxide 1310-73-2	-	= 1350 mg/kg ( Rabbit )	-
Sodium Tripolyphosphate 7758-29-4	= 3120 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Sodium Metasilicate 6834-92-0	= 1153 mg/kg(Rat)	-	-
Alcohols, C6-10, ethoxylated propoxylated 68987-81-5	= 2745 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 50 mg/L ( Rat ) 4 h
Tetrasodium Pyrophosphate 7722-88-5	1000 - 3000 mg/kg (Rat)	-	-
Sodium Dichloroisocyanurate, Dihydrate 51580-86-0	= 735 mg/kg ( Rat )	= 2100 mg/kg ( Rat )	60 mg/L ( Rat ) 4 h

Sodium Trimetaphosphate	= 10300 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	-
7785-84-4			

### Information on toxicological effects

**Symptoms** See section 4 of this SDS for symptoms.

## 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

eves.

SensitizationNo Information available.Germ cell mutagenicityNo Information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitrilotriacetic Acid,	-	Group 2B	-	X
Trisodium Salt 18662-53-8				
10002-33-0				

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

**Target organ effects** 

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.

**Aspiration hazard** No Information available.

# Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 2.5% 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**

19.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Carbonate	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus	265: 48 h Daphnia magna mg/L
497-19-8		mg/L LC50 static 310 - 1220: 96 h	EC50
		Pimephales promelas mg/L LC50	
		static	
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus mykiss	-
1310-73-2		mg/L LC50 static	
Sodium Tripolyphosphate	-	1650: 48 h Leuciscus idus mg/L	-
7758-29-4		LC50	
Sodium Metasilicate	-	210: 96 h Brachydanio rerio mg/L	216: 96 h Daphnia magna mg/L
6834-92-0		LC50 210: 96 h Brachydanio rerio	EC50
		mg/L LC50 semi-static	

### Persistence and degradability

No Information available.

**Bioaccumulation** 

No Information available.

Other adverse effects No Information available.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

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

regulations.

**Contaminated packaging** Do not reuse container.

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 Carbonate 497-19-8	Corrosive
Sodium Hydroxide 1310-73-2	Toxic 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** UN1759, Corrosive solid, n.o.s. (contains sodium hydroxide and sodium metasilicate), 8,

PG II

# 15. REGULATORY INFORMATION

1 4			ntories
Intor	nation	ai inwa	NHALIDE

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

#### **SARA 313**

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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	Х

### **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 contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm.

Chemical Name	California Proposition 65
Nitrilotriacetic Acid, Trisodium Salt - 18662-53-8	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide 1310-73-2	Х	X	X
Nitrilotriacetic Acid, Trisodium Salt 18662-53-8	-	X	-
Tetrasodium Pyrophosphate 7722-88-5	X	X	X
Sodium Dichloroisocyanurate, Dihydrate 51580-86-0	<u>-</u>	X	Х
Sodium Trimetaphosphate 7785-84-4	<del>-</del>	X	X

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

### **16. OTHER INFORMATION**

HMIS Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

Legend

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

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Revision Note SDS sections updated

**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**