



SAFETY DATA SHEET CALTRISAL ST

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Caltrisal ST
CHEMICAL NAME Polycarboxylic acid
PRODUCT USE Scale/deposit control additive
MANUFACTURER Aquatrols Corporation of America
1273 Imperial Way
Paulsboro, NJ 08861
Tel: 1 800.257-7797
Fax: 1 856-537-6018
Website: www.aquatrols.com

EMERGENCY TELEPHONE For chemical emergency spill, leak, fire, exposure or accident, call CHEMTREC Day or Night: Domestic North America 800-424-9300. International call 703-527-3887 (collect calls accepted).

2 HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS****INHALATION**

No specific health warnings noted.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting.

SKIN CONTACT

Non Irritant. Not a Skin Sensitiser

EYE CONTACT

Irritating to eyes.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Weight
ORGANIC ACID			1-5%
POLYCARBOXYLIC ACID.			30-60%

COMPOSITION COMMENTS

Aqueous solution containing a mixture of a polycarboxylic acid and an organic acid.

4 FIRST-AID MEASURES**NOTES TO THE PHYSICIAN**

Treat Symptomatically.

INHALATION

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION

Rinse mouth thoroughly. Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

SKIN CONTACT

Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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EYE CONTACT

Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

PROTECTIVE MEASURES IN FIRE

Leave danger zone immediately. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this material safety data sheet. For personal protection, see section 8.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. To prevent release, place container with damaged side up.

SPILL CLEAN UP METHODS

Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

HANDLING

Avoid spilling, skin and eye contact. Observe good chemical hygiene practices.

STORAGE

Store in tightly closed original container in a dry and cool place. Protect from freezing and direct sunlight. Store separated from: Alkalis. Reducing Agents. Do NOT use container made of: Carbon steel.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROCESS CONDITIONS

Provide eyewash station.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION

Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Use protective gloves made of: Butyl rubber. Neoprene, nitrile, polyethylene or PVC. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

REVISION DATE May 5, 2015

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EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated clothing before reuse.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOR	Amber
ODOR	Slight
SOLUBILITY	Miscible with water
BOILING POINT (°C)	100 - 102
MELTING POINT (°C)	<-5
RELATIVE DENSITY	1.12 - 1.14 @ 20 °C
pH-VALUE, CONC.	<2
SOLUTION	
VISCOSITY	<6 cps @ 25 °C
PARTITION COEFFICIENT (N-Octanol/Water)	1

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong alkalis. Strong oxidizing substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >2000 mg/kg (oral rat)

TOXICOLOGICAL INFORMATION

Ames Test negative

INHALATION

No specific health warnings noted.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting.

SKIN CONTACT

Non Irritant. Not a Skin Sensitiser

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not expected to be hazardous to the environment.

LC 50, 96 Hrs, FISH mg/l >100

EC 50, 48 Hrs, DAPHNIA, mg/l >1000

CALTRISAL ST**MOBILITY**

The product is miscible with water. May spread in water systems.

BIOACCUMULATION

The product does not contain any substances expected to be bio-accumulating.

DEGRADABILITY

The product is slowly degradable.

UDF Attribute 4

Acute toxicity. EC50 3 hours > 1000 mg/l Sludge inhibition

13 DISPOSAL CONSIDERATIONS**WASTE MANAGEMENT**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

14 TRANSPORT INFORMATION

TDG SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (contains polycarboxylic acid)
CLASSIFICATION CODE (ADR)	C3
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
IDENTIFICATION No.	3265
TUNNEL RESTRICTION CODE	(E)
DOT HAZARD CLASS	8
DOT PACKING GROUP	III
U.S DOT HAZARD LABEL	Corrosive
UN NO. SEA	3265
IMDG CLASS	8
IMDG PACK GR.	III
EMS	F-A, S-B
MARINE POLLUTANT	No.
UN NO. AIR	3265
AIR CLASS	8
AIR PACK GR.	III
TDG PACKING GROUP	III

15 REGULATORY INFORMATION**INVENTORIES**

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
POLYCARBOXYLIC ACID.	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.
ORGANIC ACID	DSL	Yes.	EINECS	Yes.	Yes.	Yes.	Yes.	Yes.

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COMPONENT	TSCA 12(b) Export Notification
POLYCARBOXYLIC ACID.	N/A.
ORGANIC ACID	N/A.

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPC	CERCLA-RQ	SARA 313
POLYCARBOXYLIC ACID.	No	No	No.
ORGANIC ACID	No	5 000 lbs	No.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
POLYCARBOXYLIC ACID.	No
ORGANIC ACID	No

US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
POLYCARBOXYLIC ACID.		No	No	No	No	No	No	No
ORGANIC ACID		No	No	Yes.	No	Yes.	Yes.	No

REGULATORY STATUS (US)

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required.

TSCA: The ingredients of this product are on the TSCA Inventory.

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Materials Causing Other
Toxic Effects.



Corrosive Material.

CONTROLLED PRODUCT CLASSIFICATION

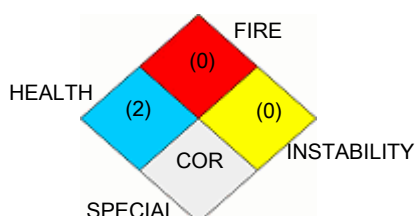
Canadian WHMIS Classification E D2B

16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		2
FLAMMABILITY		0
PHYSICAL		0
PERSONAL PROTECTION		C

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



CALTRISAL ST

GENERAL INFORMATION

Classified as corrosive class 8 for transportation on the basis of its effect on mild steel and/or aluminium.

For advice on chemical emergencies, spillages, fires or first aid in relation to this product please contact the relevant emergency number below :

EU/English Speakers - +44 (0) 1235 239 670 (NCEC)

Arabic Speakers - +44 (0) 1235 239 671

Asia/Pacific countries - +65 3158 1074

For emergencies within China - +86 10 5100 3039

REVISION COMMENTS

Reissued to format specified in EC No 453/2010 Annex I (Revised REACH Annex II)

ISSUED BY

Aquatrols Corporation of America,

REVISION DATE May 5, 2015

VERSION No. 1

DISCLAIMER

For safety reasons it is IMPERATIVE that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.