

## SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

## GLB SHOXIDIZER

Version 1.2

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### SECTION 1. IDENTIFICATION

Product name : GLB SHOXIDIZER

#### Manufacturer or supplier's details

Company : Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004  
United States of America (USA)

E-mail address : sds@lonza.com

Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,  
CHEMTREC WORLD-WIDE: +1-703-527-3887.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Respiratory sensitisation : Category 1  
Skin sensitisation : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

#### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust or mist.

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P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P284 Wear respiratory protection.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P305 + P351 + P338 + P310 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/doctor.  
 P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

### Disposal:

P501 Dispose of contents/container in accordance with local regulation.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

### Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Potassium hydrogenperoxomonosulphate	10058-23-8	25 - 35
Potassium hydrogensulphate	7646-93-7	12 - 18
troclosene sodium	2893-78-9	10 - 20
Sodium carbonate	497-19-8	8 - 14
Dipotassium peroxodisulphate	7727-21-1	1 - 3
Magnesium carbonate	546-93-0	0 - 2

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### SECTION 4. FIRST AID MEASURES

If inhaled	: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
In case of skin contact	: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	: IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: None known.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water only.
Specific hazards during firefighting	: Material will not ignite or burn. Will release oxygen when heated, intensifying a fire
Further information	: In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water to cool containers.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.
Environmental precautions	: If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid inhalation of dust and fumes.
- Conditions for safe storage : Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Protect from moisture.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipotassium peroxodisulphate	7727-21-1	TWA	0.1 mg/m <sup>3</sup> (as persulfate)	ACGIH
Magnesium carbonate	546-93-0	REL (Total)	10 mg/m <sup>3</sup>	NIOSH/GUIDE
		REL (Respirable.)	5 mg/m <sup>3</sup>	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m <sup>3</sup>	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m <sup>3</sup>	OSHA_TRANS
		TWA (Total dust.)	15 mg/m <sup>3</sup>	Z1A
		TWA (Respirable fraction.)	5 mg/m <sup>3</sup>	Z1A

- Engineering measures** : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

#### Personal protective equipment

##### Hand protection

- Remarks : Wear impervious gloves, boots and apron to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.
- Eye protection : Use chemical goggles.
- Skin and body protection : Neoprene
- Protective measures : An eye wash and safety shower should be provided in the immediate work area.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: granular
Colour	: white
Odour	: no data available
Odour Threshold	: no data available
pH	: 7.0 - 7.5 Concentration: 10 g/l (as aqueous solution)
Melting point/freezing point	: no data available
Boiling point/boiling range	: Not applicable
Flash point	: no data available
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Product is not known to be flammable, combustible, pyrophoric or explosive.
Flammability (liquids)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: Not applicable
Relative density	: 1.1 - 1.4 (68 °F / 20 °C)
Density	: no data available
Bulk density	: no data available
Water solubility	: 250 g/l (68 °F / 20 °C)
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: no data available

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### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Sparks, open flame, other ignition sources, and elevated temperatures. Contact with incompatible substances Exposure to moist air or water
Incompatible materials	: This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials. Heavy metals such as cobalt, nickel, copper, or manganese Halides Avoid moisture.
Hazardous decomposition products	: Carbon monoxide, Carbon dioxide Chlorine containing gases Decomposes when heated or dampened, releasing oxygen and heat

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, skin, eyes, ingestion

#### Acute toxicity

Acute oral toxicity : LD50 (Rat): Believed to be approximately 1,600 mg/kg

Acute dermal toxicity : LD50 (Rabbit): Believed to be > 2,000 mg/kg

#### Skin corrosion/irritation

Remarks: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION.

The dry material is irritating to the skin. However when wet, it will produce burns to the skin.

#### Serious eye damage/eye irritation

Remarks: Corrosive to eyes

#### Respiratory or skin sensitisation

Remarks: May cause allergic skin sensitization in some individuals.

#### Carcinogenicity

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### 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.

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### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### Further information

Remarks: no data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

### Components:

#### Potassium hydrogensulphate:

Partition coefficient: n-octanol/water : Remarks: Not applicable

#### Sodium carbonate:

Partition coefficient: n-octanol/water : Remarks: Not applicable

### Mobility in soil

no data available

### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
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 : Moderately toxic to fish and other aquatic organisms.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : If this product becomes a waste, it will be a nonhazardous waste.  
As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

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### DOT

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
**Labels** : 9  
**Emergency Response Guidebook Number** : 171  
**Environmental hazards** : yes

### TDG

**UN number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 SOLID, N.O.S.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
**Labels** : 9  
**Environmental hazards** : yes

### IATA

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
**Labels** : 9MI  
**Environmental hazards** : yes

### IMDG

**UN number** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
**Labels** : 9  
**EmS Number 1** : F-A  
**EmS Number 2** : S-F  
**Environmental hazards** : Marine pollutant: yes

### ADR

**UN number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
 SOLID, N.O.S.  
 (Sodium dichloro-s-triazine trionedihydrate)  
**Transport hazard class** : 9  
**Packing group** : III  
**Classification Code** : M7  
**Hazard Identification Number** : 90  
**Labels** : 9  
**Environmental hazards** : yes



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### RID

<b>UN number</b>	: 3077
<b>Proper shipping name</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium dichloro-s-triazine trionedihydrate)
<b>Transport hazard class</b>	: 9
<b>Packing group</b>	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
<b>Environmental hazards</b>	: yes
<b>Special precautions for user</b>	: none
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	: Not applicable

## SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Registration number	: 74849-1
Signal word	: DANGER!
Hazard statements	: Harmful if swallowed. Harmful if absorbed through skin. Corrosive. Causes skin burns. Corrosive - causes irreversible eye damage. This pesticide is toxic to fish.

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

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Adipic acid	124-04-9	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

### 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.

### Clean Air Act

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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).

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Adipic acid	124-04-9	0.001 - 0.01 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

### Clean Water Act

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

Components	CAS-No.	Component RQ (lbs)
Adipic acid	124-04-9	5000

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

Components	CAS-No.	Concentration
Adipic acid	124-04-9	0.001 - 0.01 %

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

### US State Regulations

#### Massachusetts Right To Know

Components	CAS-No.
troclosene sodium	2893-78-9
Dipotassium peroxodisulphate	7727-21-1
Magnesium carbonate	546-93-0

#### Pennsylvania Right To Know

Components	CAS-No.
Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Potassium hydrogensulphate	7646-93-7
troclosene sodium	2893-78-9
Sodium carbonate	497-19-8

#### New Jersey Right To Know

Components	CAS-No.
Potassium hydrogenperoxomonosulphate	10058-23-8
Potassium sulfate	7778-80-5
Potassium hydrogensulphate	7646-93-7
troclosene sodium	2893-78-9

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Sodium carbonate	497-19-8
Dipotassium peroxodisulphate	7727-21-1
Magnesium carbonate	546-93-0

### 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.

### Canadian lists

### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

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

TSCA : This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values  
 NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards  
 OSHA\_TRANS : US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
 Z1A : US. OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration,

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Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Date format : yyyy/mm/dd

US / EN