



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE
USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE
USA: 1-703-527-3887)

1-800-511-MSDS (OUTSIDE
USA: 1-423-780-2347)

PRODUCT NAME: PULSAR® SUNSCREEN 20 STABILIZER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004

REVISION DATE: 05/27/2015
SUPERCEDES: 07/18/2013

MSDS Number: 000000023221
SYNONYMS: Isocyanuric acid, Cyanuric acid
CHEMICAL FAMILY: Isocyanurate
DESCRIPTION / USE: Chlorine stabilizer for swimming pool
use
FORMULA: C₃H₃N₃O₃

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2B
Specific target organ toxicity -
single exposure : Category 3

GHS Label element

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H315 Causes skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation.

Precautionary statements :

Prevention:
P261 Avoid breathing vapours.



P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see supplemental first aid instructions on
this label).

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at
rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/ physician if you feel
unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/
attention.

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

| <u>CAS OR CHEMICAL NAME</u> | <u>CAS #</u> | <u>% RANGE</u> |
|--|--------------|----------------|
| 1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE | 108-80-5 | 95 - 100 |

SECTION 4. FIRST AID MEASURES

| | |
|---------------|---|
| Inhalation: | IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. |
| Skin Contact: | IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops. |
| Eye Contact: | IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops. |
| Ingestion: | IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person. |



SECTION 5. FIREFIGHTING MEASURES

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| Flammability Summary (OSHA): | Product is not known to be flammable, combustible, pyrophoric or explosive. |
| <u>Flammable Properties</u> | |
| Flash Point: | Not applicable |
| Autoignition Temperature: | Not applicable |
| Fire / Explosion Hazards: | Material will not ignite or burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. |
| Extinguishing Media: | Choose extinguishing media suitable for surrounding materials. |
| Fire Fighting Instructions: | 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. |
| Hazardous Combustion Products: | Carbon monoxide, Carbon dioxide |
| Upper Flammable / Explosive Limit, % in air: | Not applicable |
| Lower Flammable / Explosive Limit, % in air: | Not applicable |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
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| Personal Protection for Emergency Situations: | Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus. |
| <u>Spill Mitigation Procedures</u> | |
| Air Release: | Not applicable |
| Water Release: | This material is heavier than and slightly soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. |
| Land Release: | Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not place spill materials back in their original containers. Contain all solids for treatment or disposal. |
| Additional Spill Information : | 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. |

SECTION 7. HANDLING AND STORAGE

| | |
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| Handling: | Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. |
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Storage: Store in a cool, dry and well ventilated place. Keep containers tightly closed when not in use.
Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: 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.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.
Respirator Type : Wear a NIOSH approved N95 respirator.
Skin Protection : Wear impervious gloves to avoid skin contact.
Eye Protection: Use safety glasses with side shields. Emergency eyewash should be provided in the immediate work area.
Protective Clothing Type: Impervious

Components with workplace control parameters

| Components (CAS-No.) | Value | Control parameters | Basis (Update) |
|---|-------|----------------------|----------------|
| 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE (108-80-5) | TWA | 10 mg/m ³ | WEEL (2012) |
| | TWA | 5 mg/m ³ | WEEL (2012) |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Form: granules or powder
Color: white
Odor: None
Molecular Weight: 129.08 g/mol
pH : Approximately 5.0
Boiling Point: Decomposes
Melting point/freezing point: 626 °F (330 °C)
Sublimes

Density: 0.7900 - 0.8500g/cc

Vapor Pressure: Nil
Vapor Density: Not applicable
Viscosity: No data
Fat Solubility: No data



| | |
|--|--------------------|
| Solubility in Water: | 1.20000 gm /100 ml |
| Partition coefficient n-octanol/water: | No data. |
| Evaporation Rate: | Nil |
| Oxidizing: | No data |
| Volatiles, % by vol.: | Not applicable |
| VOC Content | No data |
| HAP Content | No data |

SECTION 10. STABILITY AND REACTIVITY

| | |
|-----------------------------------|--|
| Stability and Reactivity Summary: | Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization. |
| Conditions to Avoid: | High temperatures, Contact with incompatible substances |
| Chemical Incompatibility: | oxidizers |
| Hazardous Decomposition Products: | Carbon monoxide, Carbon dioxide, Oxides of nitrogen, cyanic acid |
| Decomposition Temperature: | >300 °C - , |

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE LD50 > 10,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE LD50 > 7,940 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE No data

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 5,000 mg/kg Rat
Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit
Inhalation LC50 value: No data
Skin Irritation: Not expected to be irritating to the skin.



| | |
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| Eye Irritation: | May cause mild eye irritation. |
| Skin Sensitization: | This material is not known or reported to be a skin or respiratory sensitizer. |
| Acute Toxicity: | May cause mild eye irritation. Ingestion may cause mild gastrointestinal discomfort. |
| Subchronic / Chronic Toxicity: | Target organ damage to the kidneys from ingestion due to precipitation of crystals of cyanuric acid which results in formation of kidney stones. |
| Reproductive and Developmental Toxicity: | This chemical has been tested in laboratory animals and no evidence of teratogenicity was seen. |
| Mutagenicity: | This chemical has been tested in a battery of mutagenicity/genotoxicity assays and the results were negative. |
| Carcinogenicity: | This material did not cause cancer in long-term animal studies. |

SECTION 12. ECOLOGICAL INFORMATION

Overview: Practically non- toxic to fish and other aquatic organisms., Practically non-toxic to wildlife and domestic animals.

Ecological Toxicity Values for: 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE

| | |
|---|------------------------------------|
| Bluegill sunfish | - (static). 96 h LC50 > 2,100 mg/l |
| Pimephales promelas (fathead minnow) | - (static). 96 h LC50 > 2,100 mg/l |
| Rainbow trout (<i>Salmo gairdneri</i>), | - (static). 96 h LC50 > 2,100 mg/l |
| Daphnia magna, | - (static). 48 h LC50 > 1,000 mg/l |
| Algae | - 96 h EC50 = 655 mg/l |
| Bobwhite quail | - 8 day dietary LC50 > 10,000 ppm |
| Mallard duck | - 8 day dietary LC50 > 10,000 ppm |

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it



listed as a hazardous waste under Subpart D.

Disposal Methods :

As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes :

Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG-CODE

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

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

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

No components are subject to the New Jersey Right to know act

New Jersey Right To Know

No components are subject to the New Jersey Right to know act



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.

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

- TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.
- : 6-Amino-1,3,5-triazine-2,4(1H,3H)-dione

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 1, 14
Major References : Available upon request.

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