

CSW 600
34779

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone number	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)
Product name	CSW 600	
Product code	34779	
Product Use Description	No data	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, light yellow

DANGER! MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

Potential Health Effects

Exposure routes

Inhalation, Skin contact

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.

Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

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Inhalation

Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions) Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways) Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lowered blood pressure, Shortness of breath, May cause methemoglobinemia, a blood abnormality that may cause headache, difficulty breathing, lightheadedness, weakness, confusion, rapid heart rate and cyanosis (lack of oxygen in the tissues causing blue-colored skin and nails).

Target Organs

No data

Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
SODIUM NITRITE	7632-00-0	>=5-<10%

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TRIPOTASSIUM PHOSPHATE

7778-53-2

$\geq 1.5 - < 5\%$

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

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May form:, carbon dioxide and carbon monoxide, Phosphorus compounds carbon dioxide and carbon monoxide, nitrogen compounds, nitrogen oxides (NOx)

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No data

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect

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exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin and body protection

To prevent skin contact, wear impervious clothing and boots.

Wear resistant gloves such as:

- Neoprene
- Nitrile rubber
- polyvinyl chloride
- Polyethylene

Respiratory protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	no data available
Colour	light yellow
Odour	no data available
Boiling point/boiling range	no data available
Melting point/range	14 °F / -10 °C
Sublimation point	no data available
pH	12.5
Flash point	

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Ignition temperature	not applicable
Evaporation rate	no data available
Lower explosion limit/Upper explosion limit	no data available
Particle size	no data available
Vapour pressure	no data available
Relative vapour density	no data available
Density	1.116 g/cm ³ @ 77 °F / 25 °C 9.310 lb/gal @ 77 °F / 25 °C
Bulk density	No data
Water solubility	completely soluble
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Solids in Solution	no data available
Decomposition temperature	no data available
Burning number	no data available
Dust explosion constant	no data available
Minimum ignition energy	no data available

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Do not allow evaporation to dryness., Exposure to moisture.

Incompatible products

Avoid contact with:, Copper, Organic materials, strong mineral acids, strong organic acids, strong oxidizing agents Acids, activated carbon, ammonium salts, Amines, Ammonia, Combustible material, Cyanides, oxidizable substances, Powdered metals, Reducing agents

Hazardous decomposition products

May form:, carbon dioxide and carbon monoxide, Phosphorus compounds carbon dioxide and carbon monoxide, nitrogen compounds, nitrogen oxides (NO_x)

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Hazardous reactions

Product will not undergo hazardous polymerization., Can react with chemically reactive metals, such as aluminum, zinc, magnesium, copper, etc., to release hydrogen gas which can form explosive mixtures with air.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

SODIUM NITRITE : LD 50 Rat: 180 mg/kg
TRIPOTASSIUM PHOSPHATE : LD 50 Rat: 4,500 mg/kg

Acute inhalation toxicity

SODIUM NITRITE : LC 50 Rat: 5.5 mg/l; 4 h
TRIPOTASSIUM PHOSPHATE : no data available

Acute dermal toxicity

SODIUM NITRITE : no data available
TRIPOTASSIUM PHOSPHATE : LD 50
Rabbit:
(>) 7,970 mg/kg

12. ECOLOGICAL INFORMATION

Biodegradability

SODIUM NITRITE : no data available
TRIPOTASSIUM PHOSPHATE : no data available

Bioaccumulation

SODIUM NITRITE : no data available

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TRIPOTASSIUM PHOSPHATE : no data available

Ecotoxicity effects

Toxicity to fish

SODIUM NITRITE : 96 h static test LC 50 Danio rerio (zebra fish): 130.00 mg/l
96 h flow-through test LC 50 Fathead minnow (Pimephales promelas): 2.35 - 3.81 mg/l
96 h flow-through test LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 0.09 - 0.13 mg/l
96 h LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 0.15 - 0.20 mg/l Method: Flow through; Mortality

TRIPOTASSIUM PHOSPHATE : no data available

Toxicity to daphnia and other aquatic invertebrates.

SODIUM NITRITE : 96 h static test LC 50 Water flea (Daphnia magna): 8.30 mg/l

TRIPOTASSIUM PHOSPHATE : no data available

Toxicity to algae

SODIUM NITRITE : no data available

TRIPOTASSIUM PHOSPHATE : no data available

Toxicity to bacteria

SODIUM NITRITE : no data available

TRIPOTASSIUM PHOSPHATE : no data available

Biochemical Oxygen Demand (BOD)

SODIUM NITRITE : no data available

TRIPOTASSIUM PHOSPHATE : no data available

Chemical Oxygen Demand (COD)

SODIUM NITRITE : no data available

TRIPOTASSIUM PHOSPHATE : no data available

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Additional ecological information

SODIUM NITRITE : no data available
TRIPOTASSIUM PHOSPHATE : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN 1760	Corrosive liquids, n.o.s. (SODIUM NITRITE)	8		II	
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U.S. DOT - RAIL

UN 1760	Corrosive liquids, n.o.s. (SODIUM NITRITE)	8		II	
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U.S. DOT - INLAND WATERWAYS

UN 1760	Corrosive liquids, n.o.s. (SODIUM NITRITE)	8		II	
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TRANSPORT CANADA - ROAD

UN 1760	CORROSIVE LIQUID, N.O.S. (SODIUM NITRITE)	8		II	
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TRANSPORT CANADA - RAIL

UN 1760	CORROSIVE LIQUID, N.O.S. (SODIUM NITRITE)	8		II	
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TRANSPORT CANADA - INLAND WATERWAYS

UN	1760	CORROSIVE LIQUID, N.O.S. (SODIUM NITRITE)	8	II
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1760	CORROSIVE LIQUID, N.O.S. (SODIUM NITRITE)	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1760	Corrosive liquid, n.o.s. (SODIUM NITRITE)	8	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1760	Corrosive liquid, n.o.s. (SODIUM NITRITE)	8	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1760	LIQUIDO CORROSIVO, N.E.P. (SODIUM NITRITE)	8	II
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

WHMIS Classification

D1B Toxic Material Causing Immediate and Serious Toxic Effects

E Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Canadian National Pollutant Release Inventory (NPRI)

SODIUM NITRITE 9.99 %

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Notification status

Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
EU. EINECS	y (positive listing)
Japan. Kashin-Hou Law List	n (Negative listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)

	HMIS	NFPA
Health	3	3
Flammability	0	0
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).