

SAFETY DATA SHEET

1. Identification

Product identifier	LEAD PERCHLORATE SOLUTION, 0.1 M	
Other means of identification		
Product code	2076	
Recommended use	professional, scientific and technical activities: other professional, scientific and technical activities	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		

Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 United States	
Telephone	Phone Toll Free Fax	740-881-5501 800-858-9682 740-881-5989
Website E-mail	www.gfschemicals.com service@gfschemicals.com	
Emergency phone number	Emergency Assistance	Chemtrec 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 1
	Reproductive toxicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		



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Signal word	Danger
Hazard statement	Causes skin irritation. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	IF ON SKIN: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Collect spillage. Take off contaminated clothing and wash before reuse.

 Storage
 Store locked up.

 Disposal
 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

 Hazard(s) not otherwise
 None known.

Hazard(s) not otherwise classified (HNOC) Supplemental information

4.1% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
WATER		7732-18-5	95.9
LEAD PERCHLORATE, TRIHYDR	ATE	13453-62-8	4.1

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measure	

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This product is miscible in water. This material is classified as a water pollutant under the Clear Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA Components		Гуре	Va	alue
LEAD PERCHLORATE, TRIHYDRATE (CAS 13453-62-8)		TWA		05 mg/m3
US. OSHA Specifically Components	-	ces (29 CFR 1910.10 Гуре	-	alue
LEAD PERCHLORATE, TRIHYDRATE (CAS 13453-62-8)	-	ſWA	0.0	05 mg/m3
ACGIH Components		Гуре	Va	alue
LEAD PERCHLORATE, TRIHYDRATE (CAS 13453-62-8) US. ACGIH Threshold I		ΓWA	0.1	5 mg/m3
Components		Гуре	Va	alue
LEAD PERCHLORATE, TRIHYDRATE (CAS 13453-62-8)		ſWA	0.0	05 mg/m3
ological limit values				
US. ACGIH. BEIs. Biolo Components	gical Exposure Ind Value	ices Determinant	Specimen	Sampling Time
LEAD PERCHLORATE, TRIHYDRATE (CAS 13453-62-8)	300 µg/l	Lead	Blood	*
* - For sampling details, p	please see the source	document.		
propriate engineering ntrols	be matched to engineering co limits have not	conditions. If applicable ntrols to maintain airbo	e, use process er me levels below tain airborne lev	hour) should be used. Ventilation rates shou nclosures, local exhaust ventilation, or other recommended exposure limits. If exposure yels to an acceptable level. Provide eyewash re recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Thermal hazards	No personal respiratory protective equipment normally required. Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	32 °F (0 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.03 g/cm3
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	95.9 % estimated
Specific gravity	1.03
10. Stability and reactivity	ty

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Conditions to avoid	Contact with incompatible materials.		
Incompatible materials	Strong oxidizing agents.		
Hazardous decomposition	Lead oxides		
products			

11. Toxicological information

11. Toxicological informa	tion		
Information on likely routes of	exposure		
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Information on toxicological ef	fects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer.		
	Evaluation of Carcinogenicity		
LEAD PERCHLORATE, TRI US OSHA Hazard Categorie	HYDRATE (CAS 13453-62-8) 2A Probably carcinogenic to humans. s (1)		
Not regulated. US OSHA Hazard Categorie	s (10)		
Not regulated.			
US OSHA Hazard Categorie	s (2)		
Not regulated. US OSHA Hazard Categorie	s (3)		
Not regulated. US OSHA Hazard Categorie	s (4)		
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Not regulated.			
US OSHA Hazard Categorie Not regulated.	s (6)		
US OSHA Hazard Categorie	s (7)		
Not regulated.	- (0)		
US OSHA Hazard Categorie	s (8)		
Not regulated. US OSHA Hazard Categorie	s (9)		
Not regulated.	ogram (NTP) Report on Carcinogens		
	HYDRATE (CAS 13453-62-8) Reasonably Anticipated to be a Human Carcinogen.		
Reproductive toxicity	May damage fertility or the unborn child.		
Specific target organ toxicity	Not classified.		
- single exposure			
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure. The perchlorate ion competes with iodide in the mechanism that governs uptake into the thyroid gland for growth hormone production. This effect is routinely countered by ensuring sufficient dietary intake of iodine, as perchlorate does not accumulate in the body. Studies on workers in plants where perchlorates are manufactured have shown no thyroid abnormalities; various clinical studies are ongoing. Perchlorates occur naturally in trace amounts in the environment, and are not classified as carcinogenic.		

Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.		
Persistence and degradability			
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

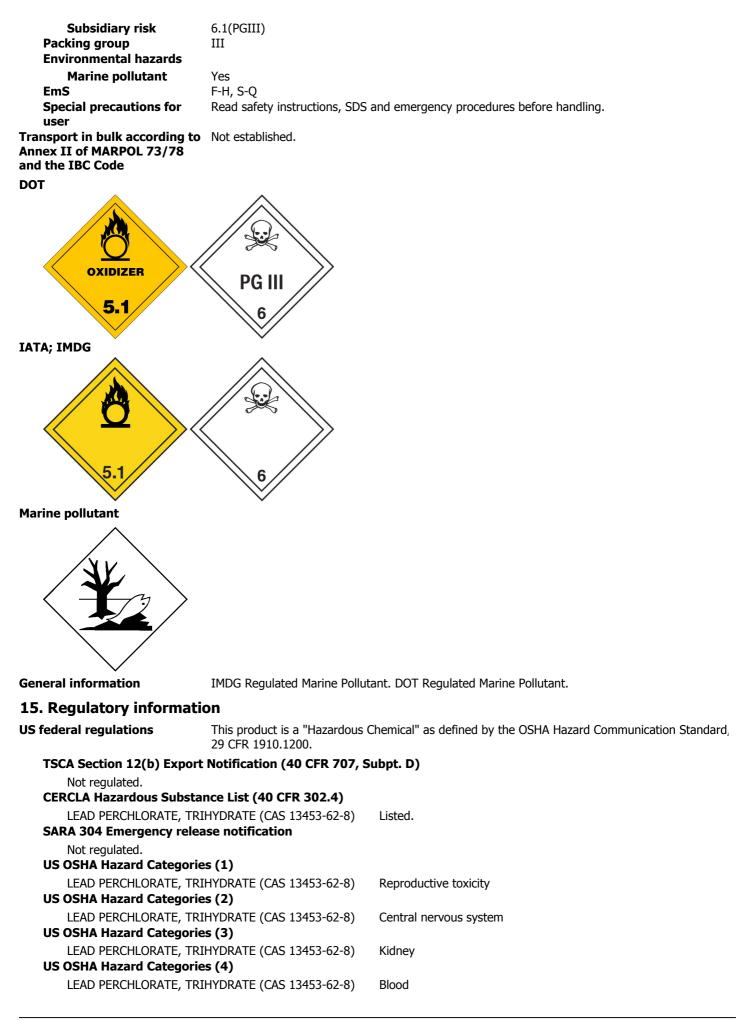
13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow t material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches w chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

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DOT			
UN number	UN3408		
UN proper shipping name	Lead perchlorate, solution, MARINE POLLUTANT (LEAD PERCHLORATE)		
Transport hazard class(es)			
Class	5.1		
Subsidiary risk	6.1(PGIII)		
Label(s)	5.1, 6.1		
Packing group	III		
Environmental hazards			
Marine pollutant	Yes		
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.		
user			
Special provisions	IB2, T4, TP1		
Packaging exceptions	152		
Packaging non bulk	203		
Packaging bulk	242		
ΙΑΤΑ			
UN number	UN3408		
UN proper shipping name	Lead perchlorate solution		
Transport hazard class(es)			
Class	5.1		
Subsidiary risk	6.1(PGIII)		
Packing group	III		
Environmental hazards	No.		
ERG Code	5P		
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.		
user			
Other information			
Passenger and cargo	Allowed with restrictions.		
aircraft			
Cargo aircraft only	Allowed with restrictions.		
IMDG			
UN number	UN3408		
UN proper shipping name			
Transport hazard class(es)			
Class	5.1		
Material name: LEAD PERCHLORATE S	OLUTION, 0.1 M		
2076 Version	#: 02 Revision date: March-17-2017 Issue date: August-19-2015		



-	IHYDRATE (CAS 13453-62	2-8) Acute toxicity	Ý	
US OSHA Hazard Categori	es (6)			
Not regulated. US OSHA Hazard Categori	es (7)			
Not regulated.				
US OSHA Hazard Categori	es (8)			
Not regulated.				
US OSHA Hazard Categori	es (9)			
Not regulated. US OSHA Hazard Categori	es (10)			
Not regulated.				
Superfund Amendments and F Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely haza Not listed.	rdous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)		CAS number	% by wt.	
Chemical name				
LEAD PERCHLORATE, TR	IHYDRATE	13453-62-8	4.1	
	IHYDRATE	13453-62-8	4.1	
LEAD PERCHLORATE, TR				
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Disclaimer

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Revision information