# SAFETY DATA SHEET



1 Identification			
1. Identification	Chlorosulfonic Acid/Sulfur Trioxide Blend		
Product identifier	420000020202		
Other means of identification SDS number	13000026293 Manufacturing of phormocolution products		
Recommended use	Manufacturing of pharmaceutical products.	used as a drain cleaner. Not to be used as a direct	
Recommended restrictions	Not to be used as a biocidal product. Not to be used as a drain cleaner. Not to be used as a direct component of a cleaning product. Not to be used for cleaning sludge out of oil tanks.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Nexpera LLC		
Address	131 Continental Dr. Suite 300		
	Newark, DE 19713		
	United States of America		
Website	Nexpera.com		
Telephone	1-800-441-9362		
1.4. Emergency telephone number	CHEMTREC: 1-800-424-9300 (outside the U.S	S. 1-703-527-3887)	
2. Hazard(s) identification			
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Acute toxicity, inhalation	Category 1	
	Skin corrosion/irritation	Category 1A	
	Serious eye damage/eye irritation	Category 1	
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation	
	Specific target organ toxicity, repeated exposure (inhalation)	Category 2 (respiratory system, teeth)	
OSHA defined hazards	Not classified.		
Label elements			
		>	
Signal word	Danger		
Hazard statement	May be corrosive to metals. Fatal if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause damage to organs (respiratory system, teeth) through prolonged or repeated exposure by inhalation.		
Precautionary statement			
Prevention	Keep only in original container. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.		
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise	classified (HNOC)		

Reacts violently with water. Reacts with most metals to form flammable hydrogen gas.

#### Corrosive to the respiratory tract.

# 3. Composition/information on ingredients

Chemical name Chlorosulfonic acid		CAS number	%
Chlorosulfonic acid			
		7790-94-5	70 - 80
Sulfur trioxide		7446-11-9	20 - 30
composition comments	All concentrations are in percent by weight unle percent by volume.	ess ingredient is a gas. Gas c	oncentrations are in
. First-aid measures			
halation	Remove victim to fresh air and keep at rest in a artificial respiration if needed. Call a POISON (		
kin contact	Take off immediately all contaminated clothing. Flush thoroughly with water for at least 15 minutes Call a physician or poison control center immediately. Apply compresses of ice water while patier is being transported to medical facilities. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.		
ye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Call a		
ngestion	Call a physician or poison control center immervomiting occurs, keep head low so that stomat mouth-to-mouth method if victim ingested the sa pocket mask equipped with a one-way valve	ch content doesn't get into the substance. Induce artificial res	e lungs. Do not use spiration with the aid of
lost important ymptoms/effects, acute and elayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Sulfur trioxide forms sulfuric acid when exposed to water or moisture in the air. Prolonged exposure to sulfuric acid mist may cause cancer.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with wat immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.		
General information	Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. 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 safe data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.		
5. Fire-fighting measures			
uitable extinguishing media	Water fog. Foam. Powder. Carbon dioxide (CC	02).	
	The product itself does not burn. Use fire-extin materials. Carefully apply fine water mist or mic sulfuric acid. This process may release sulfuric surrounding materials will generate heat, hydro	d-expansion foam to slowly d acid mists into the air. React	ilute to non fuming ion with water and
Insuitable extinguishing nedia	None known.		
pecific hazards arising from he chemical	During fire, gases hazardous to health may be formed. Combustion products include: Sulfur dioxides. Sulfuric acid. Hydrogen chloride.		s include: Sulfur
pecial protective equipment nd precautions for firefighters	Self-contained breathing apparatus and full pro	ptective clothing must be worr	in case of fire.
ire fighting quipment/instructions	In case of fire and/or explosion do not breathe so without risk. In the event of fire, cool tanks w		
pecific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
6. Accidental release mea	sures		
Personal precautions,	Keep unnecessary personnel away. Keep peop	ple away from and upwind of	spill/leak. Wear

Personal precautions,<br/>protective equipment and<br/>emergency proceduresKeep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear<br/>appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray<br/>mist. Do not touch damaged containers or spilled material unless wearing appropriate protective<br/>clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages<br/>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. Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Dilute spill to non-fuming sulfuric acid (<100%) using a water fog or aqueous foam. Remove product with clean and dry vacuum truck or pump to storage/salvage vessel. Following product recovery, flush area with water. Neutralize with lime, soda ash or other alkali material.	
	Small Spills: Neutralize with lime, soda ash or other alkali material. Flush with plenty of water. Clean surface thoroughly to remove residual contamination.	
	Retain all contaminated water for removal and treatment. 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. Do not contaminate water. 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 taste or swallow. Do not breathe vapors or spray mist. Provide adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Do not mix water and/or aqueous solutions with sulfur trioxide. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Protect containers from damage. Never allow product to get in contact with water during storage. Store in a cool, dry place out of direct sunlight. Store in a corrosive resistant container.	
<b>0 F</b>		

# 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.	
Individual protection measures, s	such as personal protective equipment	
Eye/face protection	Wear chemical splash goggles in combination with a full-length face shield or an acid hood.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.	
Skin protection		
Other	Wear appropriate chemical resistant clothing. Full body chemical protective clothing. Chemical resistant boots.	
<b>Respiratory protection</b>	Use a NIOSH-approved respirator as appropriate.	
Thermal hazards	None known.	
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

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear to light yellow.
Odor	Pungent.
Odor threshold	Not available.
рН	< 1
Melting point/freezing point	Not available.

Initial boiling point and boiling range	Not available.
Flash point	Does not flash.
Evaporation rate	< 1 (Butyl Acetate = 1.0)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	ca. 97 mm Hg at 15 °C (59 °F)
Vapor density	ca. 1.834 at 20 °C (68 °F) (Air = 1.0)
Relative density	ca. 1.77 at 25 °C (77 °F)
Solubility(ies)	
Solubility (water)	Completely soluble. Reacts violently with water liberating sulfuric acid mist cloud and hydrogen chloride gas.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	ca. 1.77 at 25 °C (77 °F)
<b>Explosive properties</b>	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	Reacts violently with water liberating hydrogen chloride gas and sulfuric acid mist. Contact with

	metal may release flammable hydrogen gas. Reacts violently with strong alkaline substances. This product may react with reducing agents. Can react with moisture in air to produce sulfuric acid mist.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Water. Metals. Organic material. Nitrates. Chlorates. Perchlorates. Carbides. Strong oxidizers. Reducing agents. Cyanides. Sulfides. Bases. Picrates.
Hazardous decomposition products	Hydrochloric acid. Sulfur oxides.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Corrosive to the respiratory tract. Sulfuric acid is corrosive to eyes, skin and mucous membranes. Prolonged or repeated inhalation may damage respiratory tissue and may erode tooth enamel.	
Skin contact	Causes severe skin burns. May be harmful in contact with skin.	
Eye contact	Causes serious eye damage.	
Ingestion	Fatal if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Sulfur trioxide forms sulfuric acid when exposed to water or moisture in the air. Prolonged exposure to strong inorganic acid mists may cause cancer.	
Information on toxicological effects		

Fatal if inhaled.

Components	Species	Test Results		
Chlorosulfonic acid (CAS 7790-9	94-5)			
Acute				
Dermal	Data			
LD50	Rabbit	2858 mg/kg		
Inhalation LC50	Rat	38.5 mg/l, 4 Hours		
Sulfur trioxide (CAS 7446-11-9)				
Acute Inhalation				
Aerosol				
LC50	Rat	0.375 mg/l, 4 Hours		
Skin corrosion/irritation	Causes severe skin burns.			
Serious eye damage/eye rritation	Causes serious eye damage	Causes serious eye damage.		
Respiratory or skin sensitizati	on			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected	d to cause skin sensitization.		
Germ cell mutagenicity	1 1	e product or any components present at greater than 0.1% are		
Carcinogenicity	The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.			
IARC Monographs. Overa	II Evaluation of Carcinogenicit	t <b>v</b>		
	nists containing sulfuric acid	1 Carcinogenic to humans.		
NTP Report on Carcinoge	ns			
(CAS N/A)	hists containing sulfuric acid	Known To Be Human Carcinogen.		
Not listed.	ted Substances (29 CFR 1910	.1001-1053)		
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects		
	This product is not expected to cause reproductive or developmental effects. May cause respiratory irritation.			
Specific target organ toxicity - single exposure	May cause respiratory inita			
Specific target organ toxicity - repeated exposure		Sulfuric acid is corrosive to eyes, skin and mucous membranes. Prolonged or repeated inhalation may damage respiratory tissue and may erode tooth enamel.		
Aspiration hazard	Not an aspiration hazard.	Not an aspiration hazard.		
12. Ecological information	on			
Ecotoxicity		Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.		
Persistence and degradability	Not applicable.			
Bioaccumulative potential	The product is not expected	to bioaccumulate.		
Nobility in soil	No data available.	No data available.		
Other adverse effects	Chlorosulfonic acid violently sulfuric acid.	Chlorosulfonic acid violently reacts with water and readily hydrolyzes to hydrogen chloride and sulfuric acid.		
13. Disposal consideration	ons			
Disposal instructions	this material to drain into se	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with	-		
Hazardous waste code	D002: Waste Corrosive material [pH $\leq 2$ or $=>12.5$ , or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			

Waste from residues / unused products	Dispose 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	
DOT	
UN number	UN1754
UN proper shipping name	Chlorosulfonic acid (Chlorosulfonic acid RQ = 1000 LBS)
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1
Label(s)	8, 6.1
Packing group	1
Environmental hazards	
Marine pollutant	No.
Special precautions for user	<ul> <li>Read safety instructions, SDS and emergency procedures before handling.</li> </ul>
Special provisions	2, B9, B10, B14, B32, T20, TP2, TP38, TP45
Packaging exceptions	None
Packaging non bulk	227
Packaging bulk	244

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А		4

Packaging bulk	244		
ΙΑΤΑ			
UN number	UN1754		
UN proper shipping name	FORBIDDEN DANGEROUS GOODS		
Transport hazard class(es)			
Class	8		
Subsidiary risk	-		
Packing group	Not applicable.		
Environmental hazards	No.		
ERG Code	8W		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
IMDG			
UN number	UN1754		
UN proper shipping name	CHLOROSULPHONIC ACID		
Transport hazard class(es)			
Class	8		
Subsidiary risk	-		
Packing group	I		
<b>Environmental hazards</b>			
Marine pollutant	No.		
EmS	F-A, S-B		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established. However, this product is a liquid and if transported in bulk covered under MARPOL 73/78, Annex I.		

the IBC Code

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) Ex	port Notification (40 C	FR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Substance List (40 CFR 302.4)				
Chlorosulfonic acid (CAS 7790-94-5)		Listed.		
SARA 304 Emergency I	elease notification			
Sulfur trioxide (CAS 7446-11-9)		100 LBS		
OSHA Specifically Reg	ulated Substances (29	9 CFR 1910.1001-1053)		
Not listed.				
Toxic Substances Control A	Act (TSCA)	All components of the mixture on the TSCA 8(b) inventory are designated "active".		

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Chlorosulfonic acid Sulfur trioxide	7790-94-5 7446-11-9	1000 100	1000 100		
SARA 311/312 Hazardou chemical	u <b>s</b> Yes				
Classified hazard categories	Skin corros Serious eye Specific tar	ity (any route of e ion or irritation e damage or eye	irritation y (single or repeated ex	kposure)	
SARA 313 (TRI reporting Chemical name	g)	C	AS number	% by wt.	
Sulfur trioxide		7	/446-11-9	20 - 30	
er federal regulations					
Clean Air Act (CAA) See	ction 112 Hazardo	ous Air Pollutar	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) See Sulfur trioxide (CAS	ction 112(r) Accio			8.130)	
Safe Drinking Water Act (SDWA)	t Not regulate	ed.			
		DEA). List 2, Es	sential Chemicals (21	CFR 1310.02(b) and 1	310.04(f)(2) and
Chemical Code Nur	mber				
Sulfur trioxide (0	CAS 7446-11-9)	DEA). List 1 & 2	6552 Exempt Chemical Mi	xtures (21 CFR 1310.1)	2(c))
Sulfur trioxide (0	CAS 7446-11-9) Administration (I CAS 7446-11-9)			xtures (21 CFR 1310.1)	2(c))
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Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	03-August-2017
Revision date	08-November-2023
Version #	02
NFPA ratings	

Disclaimer

Nexpera LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.