SAFETY DATA SHEET spectrum

Revision date 01-April-2022

1. Identification		
Product identifier		
Product Name	AMMONIUM PEROXYDISULFATE, CRYSTAL, REAGENT, ACS	
Other means of identification		
Product Code(s)	A1225	
UN/ID no	UN1444	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		

Emergency Telephone

Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements



Revision Number 2

Harmful if swallowed Causes skin irritation Causes eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause respiratory irritation May intensify fire; oxidizer



Physical state Solid

Odor unpleasant

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection Contaminated work clothing must not be allowed out of the workplace Use only outdoors or in a well-ventilated area Keep away from heat Keep/Store away from clothing/ combustible materials Take any precaution to avoid mixing with combustibles

Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see .? on this label) 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 ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention If experiencing respiratory symptoms: Call a POISON CENTER or doctor IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

Other information

May be harmful if inhaled.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Ammonium Persulfate	7727-54-0	100	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin contact	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. May produce an allergic reaction. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Most important symptoms and effe	d effects, both acute and delayed	
Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives.	
Indication of any immediate medica	nmediate medical attention and special treatment needed	
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Dry chemical. Foam.
Specific hazards arising from the chemical	These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
Hazardous combustion products	Sulfur oxides. Nitrogen oxides (NOx).
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	yes.
Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required.
Other information	Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for contain	nent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
Methods for cleaning up	With clean should place material into clean, dry container and cover loosely; move

lethods for cleaning up	With clean shovel place material into clean, dry container and cover loosely; move
	containers from spill area. Flush area with flooding quantities of water. Prevent product from
	entering drains. Cover powder spill with plastic sheet or tarp to minimize spreading and
	keep powder dry.

7. Handling and storage

Precautions for safe handlingAdvice on safe handlingUse personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away
from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do
not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and
safety practice. Provide extract ventilation to points where emissions occur. In case of
insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing
and wash before reuse. Avoid breathing vapors or mists.Conditions for safe storage, including any incompatibilitiesStorage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly
labeled containers. Do not store near combustible materials. Store in accordance with the

reach of children. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

particular national regulations. Store in accordance with local regulations. Keep out of the

recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

ColorWhite to Off-White; Yellowish unpleasantOdorunpleasantOdor thresholdNo information availableProperty pHValues 1.0-2.0 at 228 g/L @ 25°CRemarks • MethodBoiling point / freezing point120 °C / 248 °FNone knownBoiling point / boiling range no data availableNone knownFlash point> 93.3 °C / 199.9 °FNone knownFlash point> 93.3 °C / 199.9 °FNone knownFlarmability (solid, gas) limitsno data availableNone knownUpper flarmability or explosive limitsNo data availableNone knownVapor pressureNo data availableNone knownVapor density Solubility (ies)No data availableNone knownSolubility(ies)no data availableNone knownSolubility(ies)no data availableNone knownPartition coefficient Autoignition temperature Decomposition temperature No data availableNone knownOther information Decomposition temperature No data availableNone knownOther information Explosive propertiesNo information availableNone known	Physical state	Solid	
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	Oxidizing properties	No information available	

Softening point Molecular weight VOC Content (%) Liquid Density Bulk density No information available 228.19 No information available No information available No information available

10. Stability and reactivity

Reactivity	Oxidizer.
Chemical stability	May cause fire or explosion; strong oxidizer.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Incompatible materials.
Incompatible materials	Organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

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11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract. May be harmful if inhaled.
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes eye irritation.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.
Acute toxicity	

Numerical measures of toxicity

Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Persulfate 7727-54-0	= 495 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 520 mg/L (Rat)1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity	Classification based on data available for ingredients. Irritating to skin. Classification based on data available for ingredients. Irritating to eyes. May cause sensitization by inhalation. May cause sensitization by skin contact. No information available.
Reproductive toxicity	No information available.
STOT - single exposure STOT - repeated exposure Aspiration hazard	May cause respiratory irritation. No information available. No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity

Ecotoxicity				
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Persulfate 7727-54-0	-	LC50: =103mg/L (96h, Lepomis macrochirus) LC50: =323mg/L (96h, Poecilia reticulata) LC50: =76.3mg/L (96h, Oncorhynchus mykiss)	-	EC50: =120mg/L (48h, Daphnia magna)

Persistence and degradability	No information available.
Bioaccumulation	Inherently biodegradable.

Other adverse effects

No information available.

13. Disposal	considerations	
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Waste treatment methods	
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT UN/ID no Proper Shipping Name:	UN1444 Ammonium persulfate
Hazard class Packing group: Special Provisions Marine Pollutant Description: Emergency Response Guide Number	5.1 III A1, A29, IB8, IP3, T1, TP33 Severe Marine Pollutant UN1444, Ammonium persulfate, 5.1, III 140
TDG UN-No: Proper Shipping Name: Hazard class	UN1444 Ammonium persulfate 5.1

Packing Group: **Description:**

MEX

UN-No **Proper Shipping Name** Hazard class **Packing Group** Description

ICAO (air)

UN-No: **Proper Shipping Name: Hazard class** Packing Group: Description:

ΙΑΤΑ

UN number UN1444 **Proper Shipping Name:** Ammonium persulphate Transport hazard class(es) 5.1 Packing group III **Description:**

IMDG

UN number UN1444 Ammonium persulphate Proper shipping name Transport hazard class(es) 5.1 Ш Packing group EmS-No F-A, S-Q Marine pollutant NP1 Description

RID

UN number UN1444 **Proper Shipping Name:** Transport hazard class(es) 5.1 Packing group 111 **Classification code** O2 **Description:** Labels 5.1

ADR

UN number Proper Shipping Name: Ammonium persulphate Transport hazard class(es) 5.1 Packing group Ш **Classification code** 02 **Tunnel restriction code** (E) Description: Labels 5.1

ADN

UN/ID No	UN1444
Proper shipping name	Ammonium persulphate
Transport hazard class(es)	5.1
Packing Group	III
Classification code	02
Description	UN1444, Ammonium persulphate, 5.1, III
Hazard label(s)	5.1
Limited quantity (LQ)	5 kg
Equipment Requirements	PP

15. Regulatory information

Ш UN1444, Ammonium persulfate, 5.1, III

UN1444 Ammonium persulphate 5.1 Ш UN1444, Ammonium persulphate, 5.1, III

UN1444

Ammonium persulphate 5.1 Ш UN1444, Ammonium persulphate, 5.1, III

UN1444, Ammonium persulphate, 5.1, III

UN1444, Ammonium persulphate, 5.1, III

Ammonium persulphate UN1444, Ammonium persulphate, 5.1, III

1444 1444, Ammonium persulphate, 5.1, III, (E)

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Ammonium Persulfate - 7727-54-0	1.0	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ammonium Persulfate	0111	-	-
7727-54-0			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2 Flammability 2 Instability 1 Physical and chemical properties OX HMIS Health hazards 2* Flammability 2 Physical hazards 1 Personal protection X Chronic Hazard Star Legend * = Chronic Health Hazard Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL Ceiling Maximum limit value Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization **Revision date** 01-April-2022 **Revision Note** No information available. Disclaimer

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End of Safety Data Sheet