SAFETY DATA SHEET

Revision date 04-February-2022

1. Identification			
Product identifier			
Product Name	PYRIDINE, REAGENT, ACS		
Other means of identification			
Product Code(s)	P1450		
UN/ID no	UN1282		
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended use	or		
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
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements



Revision Number 2

Danger

Hazard statements Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause damage to organs through prolonged or repeated exposure Highly flammable liquid and vapor



Physical state Liquid

Odor Strong

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting/ .? / equipment Use only non-sparking tools Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label) 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 Call a POISON CENTER or doctor if you feel unwell If skin irritation or rash occurs: Get medical advice/attention 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 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 locked up. Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

Other information No information available.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Pyridine	110-86-1	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. IF exposed or concerned: Get medical advice/attention.		
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.		
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	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.		
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.		
Self-protection of the first aider	Remove all sources of ignition. 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 breathing vapors or mists.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.		
Indication of any immediate medica	al 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	Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.		
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		

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapors or mists.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for containn	nent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from
heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static
electricity). Keep in properly labeled containers. Do not store near combustible materials.
Keep in an area equipped with sprinklers. Store in accordance with the particular national
regulations. Store in accordance with local regulations. Keep out of the reach of children.
Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Pyridine	No data available	5 ppm TWA	-
110-86-1		15 mg/m³ TWA	

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	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. Antistatic boots.
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. 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 of Physical state Appearance Color Odor Odor threshold	<u>chemical properties</u> Liquid Clear Colorless to pale yellow Strong No information available	
Property	Values	Remarks • Method
pH	no data available	None known Alkaline
Melting point / freezing point	-42 °C / -43.6 °F	None known
Boiling point / boiling range	115 °C / 239 °F	None known
Flash point	20 °C / 68 °F	CC (closed cup)
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits	No dete evellette	
Vapor pressure	No data available no data available	None known None known
Vapor density		None known
Relative density	0.96 Miscible in water	None known
Water solubility	Miscible in water Miscible with alcohol	None known
Solubility(ies)	Miscible in Ether	NOTE KIOWI
	Soluble in Oils	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information Explosive properties Oxidizing properties Softening point Molecular weight	No information available No information available No information available No information available	
VOC Content (%)	99+ % .?	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Excessive heat.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

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 irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.
Skin contact	May cause sensitization by 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). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. 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
 Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
,	⊧ 866 mg/kg (Rat) ⊧ 891 mg/kg (Rat)	1000 - 2000 mg/kg (Rabbit)= 1121 mg/kg (Rabbit)	= 12.898 mg/L (Rat)4 h = 28500 mg/m³(Rat)1 h

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for
	ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Pyridine	-	Group 3 - Monograph 77	-	-
110-86-1		[2000]		

Legend

Reproductive toxicity	No information available.
STOT - single exposure STOT - repeated exposure Target organ effects	No information available. May cause damage to organs through prolonged or repeated exposure. liver, kidney, Eyes, Skin, central nervous system, Gastrointestinal tract (GI).
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Pyridine	EC50: =520mg/L (24h,	LC50: 63.4 - 73.6mg/L	-	EC50: =520mg/L (24h,
110-86-1	Tetrahymena pyriformis)	(96h, Pimephales		Daphnia magna)
		promelas) LC50:		
		=26mg/L (96h, Cyprinus		
		carpio) LC50: =4.6mg/L		
		(96h, Oncorhynchus		
		mykiss)		

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

Component Information

Chemical name	Partition coefficient
Pyridine	0.65
110-86-1	

Other adverse effects

No information available.

13. Disposal considerations

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	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

14. Transport information

DOT	
UN/ID no	UN1282
Proper Shipping Name:	Pyridine
Hazard class	3
Packing group:	II
Special Provisions	IB2, T4, TP2

Marine Pollutant Description: Emergency Response Guide Number	Severe Marine Pollutant UN1282, Pyridine, 3, II 129
<u>TDG</u> UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1282 Pyridine 3 II UN1282, Pyridine, 3, II
<u>MEX</u> UN-No Proper Shipping Name Hazard class Packing Group Description	UN1282 Pyridine 3 II UN1282, Pyridine, 3, II
ICAO (air) UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1282 Pyridine 3 II UN1282, Pyridine, 3, II
IATA UN number Proper Shipping Name: Transport hazard class(es) Packing group Description:	UN1282 Pyridine 3 II UN1282, Pyridine, 3, II
IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No Marine pollutant Description	UN1282 Pyridine 3 II F-E, S-D NP1 UN1282, Pyridine, 3, II, (20°C
<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Description: Labels	UN1282 Pyridine 3 II F1 UN1282, Pyridine, 3, II 3
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Description: Labels	1282 Pyridine 3 II F1 (D/E) 1282, Pyridine, 3, II, (D/E) 3
<u>ADN</u> UN/ID No Proper shipping name Transport hazard class(es) Packing Group	UN1282 Pyridine 3 II

c.c.)

Classification code	F1
Description	UN1282, Pyridine, 3, II
Hazard label(s)	3
Limited quantity (LQ)	1 L
ventilation	VE01
Equipment Requirements	PP, EX, A

15. Regulatory information

International Inventories

TSCA

Complies

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

SARA 313

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 %
Pyridine - 110-86-1	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Pyridine	1000 lb final RQ	-
110-86-1	454 kg final RQ	

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Pyridine - 110-86-1	carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Pyridine	1624	Present	Environmental hazard
110-86-1			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

<u>NFPA</u> Health hazards 2 Flammability 3			
Instability 0			
Physical and chemical properties -			
HMIS			
Health hazards 2 *			
Flammability 3			
Physical hazards 0			
Personal protection X			
Chronic Hazard Star Legend	* = Chronic Health Hazard		
Shrohio Hazara Star Eogona			
Key or legend to abbreviations and	acronyms used in the s	afetv data sheet	
Legend Section 8: EXPOSURE CON			
TWA TWA (time-weighte		STEL	STEL (Short Term Exposure Limit)
Ceiling Maximum limit valu	ue		
Key literature references and source Agency for Toxic Substances and Dise U.S. Environmental Protection Agency European Food Safety Authority (EFS EPA (Environmental Protection Agency Acute Exposure Guideline Level(s) (AI U.S. Environmental Protection Agency U.S. Environmental Protection Agency Food Research Journal Hazardous Substance Database International Uniform Chemical Inform Japan GHS Classification Australia National Industrial Chemicals NIOSH (National Institute for Occupati National Library of Medicine's ChemID National Library of Medicine's PubMed National Toxicology Program (NTP) New Zealand's Chemical Classificatior Organization for Economic Co-operatio Organization for Economic Co-operatio World Health Organization	ease Registry (ATSDR) v ChemView Database A) y) EGL(s)) v Federal Insecticide, Fung v High Production Volume ation Database (IUCLID) s Notification and Assessr ional Safety and Health) D Plus (NLM CIP) d database (NLM PUBME n and Information Database on and Development Envi on and Development High	gicide, and Rodentic Chemicals nent Scheme (NICN D) se (CCID) ironment, Health, an	IAS) nd Safety Publications e Chemicals Program
Devision data	04 February 2022		
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Revision Note	No information available	•	
<u>Disclaimer</u>			

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materials or in any process, unless specified in the text. End of Safety Data Sheet