

SAFETY DATA SHEET

Product No. 19001 Amylamine Issue Date (06/26/2024) Review Date (06/26/2024) Rev. 01

Section 1: Product and Company Identification Product Name: Amylamine

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 66:00AM to 4:00PM PST) Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST) CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

Classification of the substance or mixture.

Signal Word: DANGER

GHS Categories:

GHS02 - Flammable	Flammable Liquid:	Category 2
GHS05 – Corrosive	Skin Corrosion:	Category 1B
GHS07 - Irritant	Acute toxicity, Oral	Category 4
	Acute toxicity, Dermal	Category 4
	Serious eye damage	Category 1
	Aquatic hazard (acute) ∙ short-term	Category 3
	Aquatic hazard (chronic) · long-term	Category 3

Label elements GHS Pictograms:



GHS02

GHS05

Hazard Statements

H225	Highly flammable liquid and vapor.
H302 + H312	Harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic like with long lasting effects

GHS07

Precautionary Statements

Preven	ition:			
	P210	Keep away from heat, sparks, open flames, hot surfaces - no smoking.		
	P233	Keep container tightly closed.		
	P240	Ground/bond container and receiving equipment.		
	P241	Use explosion-proof electrical/ventilation/lighting equipment.		
	P242	Use only non-sparking tools.		
	P243	Take precautionary measures against static discharge.		
	P264	Wash ski thoroughly after handing.		
	P270	Do not eat, drink or smoke when using this product.		
	P273	Avoid release to the environment.		
	P280	Wear protective gloves, protective clothing, eye protection, and face protection.		
Respor	nse:			
	P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth		
	D301+D330+D331	IF SWALLOWED: Rinse mouth Do NOT induce vomiting		
	P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing		
	13031130111333	Rinse SKIN with water (or shower))		
	P304+P340+P310	IF INHALED: Remove person to fresh air and keen comfortable for		
	1 304 11 340 11 310	hreathing		
		Immediately call a POISON CENTER/doctor		
	P305+P351+P338+P310	IF IN EVES: Rinse cautiously with water for several minutes		
	1 303 11 331 11 330 11 310	Remove contact lenses, if present and easy to do. Continue rinsing		
		Immediately call a POISON CENTER/doctor		
	P363	Wash contaminated clothing before reuse		
	P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to		
		extinguish.		
	P403+P235	Store in a well-ventilated place. Keep cool.		
	P405	Store locked up.		
	P501	Dispose of contents/container to an approved waste disposal plant.		

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Section 3: Composition / Information on Ingredients

Amylamine	
Synonyms:	Pentylamine
	1-Aminopentane
	n-Amylamine
Formula:	$CH_3(CH_2)_4NH_2$
Molecular Weight:	87.16 g/mol
CAS No: EC No:	110-58-7 203-780-2

Section 4: First Aid Measures

Description of first aid measures:

General Advice

First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled:	After inhalation: fresh air. Call a physician		
In case of skin contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.		
In case of eye contact:	After eye contact: rinse with plenty of water. Immediately call an ophthalmologist. Remove contact lenses.		
If swallowed:	After swallowing: Make victim drink water (two glasses at most). Avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.		

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling Section 2 and/or in Section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

Section 5: Fire Fighting Measures

Suitable extinguishing media:	Carbon dioxide Foam Dry powder	
Special hazards arising from the s	Substance or mixture: Carbon and Nitrogen oxides. Combustible Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.	
Advice for firefighters:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.	
Further information:	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water jet spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.	

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Do not breathe vapors, aerosols.

Avoid substance contact.

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection, see Section 8.

Environmental precautions:

Do not let product enter drains. Risk of explosion.

Methods and materials for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up liquid with liquid-absorbent material. Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see Section 13.

Section 7: Handling and Storage

Precautions for safe handling

• Advice on protection against fire and explosion:

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

• Hygiene:

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities :

• Storage conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Specific end use(s)

Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

Section 8: Exposure Controls / Personal Protection

Control parameters:	Contains no substances with occupational exposure limit values
Exposure controls: Appropriate engineering controls.	Immediately change contaminated clothing. Apply preventivie skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protectionUse equipment for eye protection tested and approved under
appropriate government standards such as NIOSH (US) or EN 166 (EU).
Tightly fitted safety goggles.

Skin protection	Splash Contact:
	Material: Viton [®]
	Minimum layer thickness: 0.7mm
	Break through time: 120 min
	Material tested: Vitoject [®] (KCL 890/Aldrich Z677698 Size M)
Body protection	Flame retardant antistatic protective clothing.
Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standards EN 149.
	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

Section 9 Physical and Chemical Properties

APPEARANCE	
Form:	Liquid
Color:	Colorless, light yellow
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	-50°C (-58° F) – lit.
Initial boiling point and boiling range:	104°C (219°F)
Flash point:	7°C (45°F)
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper flammability or explosive limits:	22% (V)
Lower flammability or explosive limits:	2.2% (V)
Vapor pressure:	No data available
Vapor density:	No data available
Density:	0.752 g/cm ^{3 @} 25°C (77°F) – lit.
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

Section 10: Stability and Reactivity

Reactivity:	Vapors may form explosive mixture with air.
Chemical stability:	This product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions:	Caution! In contact with nitrites, nitrates, nitrous acid possible

liberation of nitrosamines!

	Violent reactions possible. Strong oxidizing agents. Acid halides. Light metals. Nitriles. Phenols. Acids
Conditions to avoid:	Warming.
Incompatible materials:	Various plastics, Copper, Copper alloys.
Other decomposition products:	In the event of fire: see Section 5.

Section 11: Toxicological Information

Acute toxicityLD50 Oral – rat – 470 mg/kg Remarks: (External SDS). Symptoms: If ingested, severe burns of the more perforation of the esophagus and the stomach Oral: Absorption. Symptoms: Mucosal irritations, Cough, Short Possible damages: Damage to respiratory tract LD50 Dermal – rabbit – 1,120 mg/kg Remarks: (External SDS). Dermal: Absorption.		t – 470 mg/kg ernal SDS). ngested, severe the esophagus a on. ucosal irritations ges: Damage to p	burns of the mouth and throat, as well as a danger of nd the stomach. , Cough, Shortness of breath, Lung edema. respiratory tract.
		ng/kg	
Skin corrosion/irritation: Serious eye damage/eye irritation:		Causes skin burns. Causes serious eye damage. Risk of corneal clouding. Risk of blindness.	
Respiratory or skin sensitization N Germ cell mutagenicity: N		No data available No data available	
CarcinogenicityIARC:No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		t levels greater than or equal to 0.1% is irmed human carcinogen by IARC.	
NTP: No 0.	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
OSHA: No	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		
Reproductive toxicity: Specific target organ toxicity, single exposure: Specific target organ toxicity, repeated exposure: Aspiration hazard:		posure: exposure:	No data available No data available No data available No data available
Additional informa RTECS: SC0300000	Additional information:RTECS: SC0300000Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Cough, Shortness of breath, Nausea.		

After absorption: Vomiting, Unconsciousness. Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information		
Toxicity		
Toxicity to fish:	LC50 – Pimephales promelas (fathead minnow) – 177mg/l – 96 h Remarks: (ECOTOX Database)	
Toxicity to daphnia and other aquatic invertebrates:		
	EC50 – Daphnia magna (Water flea) – 27 - 170 mg/l – 48 h	
Persistence and degradability:	No data available	
Bioaccumulative potential: Mobility in soil: Results of PBT and vPvB assess	No data available No data available nent:	
	Assessment not available as chemical safety assessment not required/Not conducted.	
Endocrine disrupting properties:		
	No data available	
Other adverse effects:	Discharge into the environment must be avoided.	

Section 13 Disposal Considerations

Product:

- Waste material must be disposed of in accordance with the national and local regulations.
- Leave chemicals in original containers.
- No mixing with other waste.
- Handle uncleaned containers like the product itself.

Section 14: Transportation Information

U.S. Department of Transportation Ground (49 CFR)		
Proper shipping name:	Amylamine	
Hazard class or division:	3 (8)	
Identification number:	UN 1106	
Packing group:	П	
International Air Transportation (ICAO/IATA)		
Proper shipping name:	Amylamine	
Hazard class or division:	3 (8)	
Identification number:	UN 1106	
Packing group:	П	
Excepted Quantity:	E2	



EMS Number:

F-E, S-C

The transport classification(s) provided herein are for information purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet (SDS). Transportation classifications may vary by mode of transportation, package size, and variations in regional or country regulations.

Section 15: Regulatory Information

SARA 302 COMPONENTS:	This material does not contain any components with a section 302 EHS TPQ.
SARA 313 COMPONENTS:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 HAZARDS:	Fire Hazard/Acute Health Hazard
MASSACHUSETTS RIGHT TO PENNSYLVANIA RIGHT TO K	KNOW COMPONENTS:n-pentylamine CAS-No. 110-58-7(NOW COMPONENTS:n-pentylamine CAS-No. 110-58-7
CALIFORNIA PROP. 65 COM	IPONENTS:
	This product does not contain any chemicals known to the State of
	California to cause cancer, birth defects or any other reproductive
	harm.

Section 16: Other Information

This Safety Data Sheet (SDS) is intended to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Full text of other abbreviations

ACGIH:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
US WEEL:	USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA:	8-hour, time-weighted average
ACGIH / STEL:	Short-term exposure limit
NIOSH REL/TWA:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/ST:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA:	8-hour time weighted average
OSHA Z-2/TWA:	8-hour time weighted average
OSHA Z-2/CEIL:	Acceptable ceiling concentration
OSHA Z-2/Peak:	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
US WEEL/TWA:	8-hr TWA

AICS - Australian Inventory of Chemical Substances;

AIIC - Australian Inventory of Industrial Chemicals;

ASTM - American Society for the Testing of Materials;

bw - Body weight;

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act;

CMR - Carcinogen, Mutagen or Reproductive Toxicant;

DIN - Standard of the German Institute for Standardization;

DOT - Department of Transportation;

DSL - Domestic Substances List (Canada);

ECx - Concentration associated with x% response;

EHS - Extremely Hazardous Substance;

ELx - Loading rate associated with x% response;

EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan);

ErCx - Concentration associated with x% growth rate response;

ERG - Emergency Response Guide;

GHS - Globally Harmonized System;

GLP - Good Laboratory Practice;

HMIS - Hazardous Materials Identification System;

IARC - International Agency for Research on Cancer;

IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IC50 - Half maximal inhibitory concentration;

ICAO - International Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China;

IMDG - International Maritime Dangerous Goods;

IMO - International Maritime Organization;

ISHL - Industrial Safety and Health Law (Japan);

ISO - International Organization for Standardization;

KECI - Korea Existing Chemicals Inventory;

LC50 - Lethal Concentration to 50 % of a test population;

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);

MARPOL - International Convention for the Prevention of Pollution from Ships;

MSHA - Mine Safety and Health Administration;

n.o.s. - Not Otherwise Specified;

NFPA - National Fire Protection Association;

NO(A)EC - No Observed (Adverse) Effect Concentration;

NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate;

NTP - National Toxicology Program;

NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; **OPPTS** - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

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