Material Safety Data Sheet
Phenethylamine

ACC# 48635

Section 1 - Chemical Product and Company Identification

MSDS Name: Phenethylamine
Catalog Numbers: AC156490000, AC156490010, AC156491000, AC156492500, AC220660000, AC220660500 AC220660500, AC417130000, AC417135000
Synonyms: beta-Aminoethylbenzene; 1-Amino-2-phenylethane; 2-Amino-1-phenylethane; Benzeneethanamine; beta-Phenethylamine; 1-Phenyl-2-aminoethane; Phenylethylamine; beta-Phenylethylamine; omega-Phenylethylamine; 2-Phenylethylamine; PEA.
Company Identification:

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
64-04-0	Phenethylamine	99	200-574-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear colorless to light yellow liquid. Flash Point: 81 deg C.
Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Harmful if swallowed. **Combustible liquid and vapor.** May cause central nervous system effects.
Target Organs: Central nervous system, eyes, skin, mucous membranes.

Potential Health Effects
Eye: Contact with eyes may cause severe irritation, and possible eye burns.
Skin: Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Ingestion: Causes gastrointestinal tract burns. May cause central nervous system effects.
Inhalation: May cause severe irritation of the respiratory tract with possible burns. Inhalation at high concentrations may cause CNS depression and asphixiation.
Chronic: Not available. beta-Phenethylamine possesses marked amphetamine-like effects which were demonstrated in animals pretreated with a monoamine oxidase inhibitor. Like amphetamine, beta-phenethylamine induced an increase of coordinated spontaneous motility in mice, anorexia in rats & dogs, hyperthermia in mice & rats, & exhibited a difference in lethality between isolated & aggregated mice. These effects were seen with similar doses of beta-phenethylamine or amphetamine. But, unlike amphetamine, beta-phenethylamine did not increase coordinated spontaneous motility in rats.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid and vapor.
Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
Flash Point: 81 deg C (177.80 deg F)
Autoignition Temperature: 425 deg C (797.00 deg F)
Explosion Limits, Lower:1.0%
Upper: 5.5%
NFPA Rating: (estimated) Health: 3; Flammability: 2; Instability: 1

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat and flame. Do not breathe vapor or mist.
Storage: Keep away from sources of ignition. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Storage under a nitrogen blanket has been recommended.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phenethylamine	none listed	none listed	none listed

OSHA Vacated PELs: Phenethylamine: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Wear chemical splash goggles and face shield.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: clear colorless to light yellow
Odor: fish-like
pH: Strong base
Vapor Pressure: 0.3 mm Hg @ 20 deg C
Vapor Density: 4.18 (air=1)
Evaporation Rate: Not available.
Viscosity: 2.4 mPa-s @ 23 deg C
Boiling Point: 197-200 deg C
Freezing/Melting Point:-60 deg C
Decomposition Temperature: Not available.
Solubility: Soluble.
Specific Gravity/Density:0.96 g/ml @ 20°C
Molecular Formula:C8H11N
Molecular Weight:121.18

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Absorbs carbon dioxide from the air.
Conditions to Avoid: Ignition sources, excess heat, prolonged exposure to air.
Incompatibilities with Other Materials: Strong oxidizing agents, acids, acid anhydrides, acid chlorides.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:
CAS# 64-04-0: SG8750000
LD50/LC50:
Not available.
Oral, rat: LD50 = 400-800 mg/kg (Kodak) gpg: LD50 = 200-400 mg/kg (Kodak) l, gpg: LD50 < 2.5 cc/kg or < 2.4 g/kg (Kodak) lity with central nervous system signs observed.
Carcinogenicity:
CAS# 64-04-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: No information found
Neurotoxicity: See actual entry in RTECS for complete information.
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	AMINES, LIQUID, CORROSIVE, N.O.S.	AMINES LIQUID CORROSIVE NOS (PHENETHYLAMINE)
Hazard Class:	8	8
UN Number:	UN2735	UN2735
Packing Group:	III	III

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 64-04-0 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 64-04-0: immediate, fire.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
STATE
CAS# 64-04-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
C
Risk Phrases:
R 22 Harmful if swallowed.
R 34 Causes burns.

Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 64-04-0: 1
Canada - DSL/NDSL
CAS# 64-04-0 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B3, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 6/08/1999
Revision #3 Date: 1/06/2004