

Section 1: Product & Company Information

Product Identifier: Amyl Acetate

Other Means of Identification

Product Number: 152000

Recommended Use and Restrictions on Use

Recommended Use: Industrial solvent.

Restrictions on Use: No data available.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.

Address: 4320 Greenway Drive
Knoxville, TN 37918
USA

Information Telephone Number: 1-865-524-4239

Fax Number: 1-865-524-3375

Website: www.corecheminc.com

Contact Person: Regulatory Manager

E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

Section 2: Hazards Identification

GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Physical Hazard(s)

Flammable, Liquids - 3

Health Hazard(s)

Not classified.

Environmental Hazard(s)

Not classified.

Label Elements

Signal Word

WARNING

Hazard Symbol(s)



Hazard Statement(s)

H226: Flammable liquid and vapor.

Precautionary Statements

General

Not applicable.

Prevention

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/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

Storage

P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC)

None known.

Section 3: Composition/Information on Ingredients

Mixture

Chemical Identity ²	Common Name/Synonym(s)	CAS # ³	Weight %	Impurity or Stabilizing Additive
N-Amyl Acetate	Pentyl Acetate	628-63-7	60 - 100%	No
2-methyl butyl acetate	-	624-41-9	30 - 60%	No

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- “—” Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation

Move person to fresh air. If not breathing, give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin Contact

Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye Contact

Flush your eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Suitable emergency eye wash facility should be available in work area.

Ingestion

No emergency medical treatment necessary.

Most important symptoms/effects, acute and delayed Symptoms

May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis. Repeated excessive exposure may aggravate preexisting lung disease.

Section 5: Fire-Fighting Measures**General Fire Hazards**

Flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Empty containers retain residue. (Liquid/ and or vapor can be dangerous.) Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flames, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Can form explosive mixtures at temperatures at or above the flashpoint.

Suitable (and Unsuitable) Extinguishing Media**Suitable Extinguishing Media**

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.

Unsuitable Extinguishing Media

Avoid water in straight hose stream; will scatter and spread fire.

Specific Hazards Arising from the Chemical

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Special Protective Equipment and Precautions for Firefighters**Special Fire-Fighting Equipment Procedures**

Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use direct water streams. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water. Product may be carried across water surface spreading fire or contracting an ignition source.

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures**Personal Precautions, Protective Equipment and Emergency Procedures**

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in the area. Eliminate all sources of ignition in vicinity of spill or release vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers. For large spills, warn the public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Methods and Materials for Containment and Clean-Up

Small spills: Contain spilled material if possible.

Large spills: Dike area to contain spill. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Collect in suitable and properly labeled containers.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater

Section 7: Handling and Storage**Precautions for Safe Handling**

Keep away from heat, sparks and flames. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Never use air pressure for transferring product.

Conditions for Safe Storage, including any Incompatibilities

Minimize sources of ignition, such as static build-up, heat, spark or flame. Flammable mixtures may exist within the vapor space of containers at room temperature. Keep container closed.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
N-Amyl Acetate	TWA	50 ppm	US. ACGIH Threshold Limit Values
N-Amyl Acetate	STEL	100 ppm	US. ACGIH Threshold Limit Values
N-Amyl Acetate	TWA	100 ppm 525 mg/m ³	US OSHA Table Z-1
2-Methyl butyl acetate	TWA	50 ppm	US. ACGIH Threshold Limit Values
2-Methyl butyl acetate	STEL	100 ppm	US. ACGIH Threshold Limit Values

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Appropriate Engineering Controls

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual protection measures, such as personal protective equipment (PPE)

General Information

Good general ventilation (typically 10 air changes per hour) 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. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin Protection

Hand Protection

Wear impervious gloves to prevent contact with the skin.

Other

Wear protective gear as needed, apron, boots, suit. Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower.

Respiratory Protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

Hygiene Measures

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid breathing vapors. Do not eat, drink, or smoke in areas where this material is used.

Section 9: Physical and Chemical Properties

Appearance:

Physical State: Liquid
 Color: Colorless

Odor:

Mild

Odor Threshold:

No data available.

pH:

No data available.

Melting Point/Freezing Point:

< -100 °C (< -148 °F)

Initial Boiling Point and Boiling

146 °C (294.8 °F)

Range:

Flash Point:

closed cup 38 °C (100.4 °F)

Evaporation Rate (butyl acetate=1):

0.5

Flammability (solid, gas):

No

Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit – Upper: No data available

Flammability Limit – Lower: No data available

Explosive Limit – Upper: 7.5 vol%

Explosive Limit – Lower: 1.1 vol%

Vapor Pressure:

4.9 mmHg at 20 °C (68 °F)

Vapor Density (air =1):	No data available.
Relative Density (water=1):	0.88 (20 °C)
Density, g/cm³	No data available.
Solubility(ies):	
Solubility in water:	0.2 % at 20 °C (68 °F)
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	log Pow: 2.42 M
Auto-Ignition Temperature:	680 °F
Decomposition Temperature:	No data available.
Viscosity:	0.9 cP
Other Information:	
Molecular Weight:	130.19 g/mol
Formula:	CH ₃ COOC ₅ H ₁₁

Section 10: Stability and Reactivity

Reactivity

No data available.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Exposure to elevated temperatures can cause product to decompose.

Incompatible Materials

Avoid contact with: Oxidizers. Reducing agents. Strong acids. Strong bases.

Hazardous Products Decomposition

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: Expected to be a low ingestion hazard.

Inhalation: Can cause irritation to the respiratory tract.

Skin Contact: May cause irritation.

Eye Contact: May irritate eyes.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Primary Amyl Acetate: LD₅₀, Rat, > 6,500 mg/kg

Isoamyl Acetate: ATE US 6500 mg/kg

Dermal

Primary Amyl Acetate: LD₅₀: (Rabbit) 5000 mg/kg

Inhalation

No data available.

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Prolonged contact may cause moderate skin irritation with local redness. May cause drying and flaking of the skin.

Serious Eye Damage/Eye Irritation

May cause slight eye irritation. Corneal injury is unlikely.

Respiratory/Skin Sensitization

Skin contact may cause an allergic skin reaction in a small proportion of individuals.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Germ Cell Mutagenicity

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

Reproductive Toxicity

No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration Hazard

Based on available information, aspiration hazard could not be determined.

Other Effects

None known.

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 650 ppm

Aquatic Invertebrates

EC50, Daphnia magna (Water flea), 180 mg/l

Toxicity to Aquatic Plants

EC50, Pseudokirchneriella subcapitata (green algae), static test, 96 Hour, Growth inhibition (cell density reduction), 313 mg/l,

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability

Biodegradation

Readily biodegradable in water.

87 % exposure time 20d

BOD/COD Ratio

ThOD: 2.34g O₂/g

BOD: 0.31g O₂/g

BOD: 72% 20d

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Low potential for bioaccumulation (BCF < 500).

BCF (fish): 31 (QSAR)

Partition Coefficient n-octanol / water (log K_{ow})

Log Pow: 2.3

Mobility in Soil**Surface Tension:** 0.012 N/m (30 °C)**Other Adverse Effects**

Harmful to aquatic life with long lasting effects.

Ecology: The product is not considered harmful to aquatic organisms or to cause long term adverse effects in the environment.**Section 13: Disposal Considerations****Disposal Instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated Packaging

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

US Department of Transportation (DOT)

UN Number: UN1104

UN Proper Shipping Name: Amyl Acetates

Technical Name:

Hazard Class: 3

Subsidiary Hazard Risk: -

Packing Group: III

DOT Label/Placard Exemptions: Not determined

Special Provisions: B1, IB3, T2, TP1

Packaging Exceptions: 49CFR 173.150

Packaging Non-Bulk: 49CFR 173.203

Packaging Bulk: 49CFR 173.242

Reportable Quantity (RQ): 5000lb (2270kg)

Marine Pollutant: No

Poison Inhalation Hazard: No

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Emergency Response Guidebook (ERG) #: 129

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Section 15: Regulatory Information**US Federal Regulations****Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)**

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

Primary Amyl Acetate (628 63 7): 5000lb

Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)**EPCRA 302 Extremely Hazardous Substance**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactive: No
Acute (Immediate) Health Yes
Hazard:
Chronic (Delayed) Health No
Hazard:

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 1
Chronic Health Hazard: /
Flammability: 2
Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 1
Fire Hazard: 2
Reactivity Hazard: 0
Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared by: Regulatory Manager

Version #: 001

Issue Date: July 9, 2015

Last Revised By: Regulatory Assistant C

Last Revision Date: 3/10/2020

Current Revision: 02

Sections Revised: 3, 9, 11-12, 15

Key to Abbreviations and**Acronyms**

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL - Immediately Dangerous to Life and Health
Kg - Kilogram
l - Liter
lb - Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml - milliliter
N/A - Not Applicable
N/D - Not Determined
PEL - Permissible Exposure Limit
REL - Recommended Exposure Limit
STEL - Short-term Exposure Limit
TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists
AIHA - American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS - Chemical Abstracts Service
DOT - US Department of Transportation
EPA - US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - US Occupational Health and Safety Administration
SARA - US EPA Superfund Amendments and Reauthorization Act
TSCA - US EPA Toxic Substances Control Act
UN - United Nations

References

HSDB® - Hazardous Substances Data Bank

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