

SAFETY DATA SHEET

HiPure™ Phenyl Acetate

High Purity Phenyl Acetate

Version: 3.0 | Revised: 07/09/2026 | Supersedes: 05/22/2024 (V2.0)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name:	HiPure™ Phenyl Acetate
Trade Name:	HiPure™ is a trademark of CrossChem Limited
Synonyms:	Acetic Acid Phenyl Ester
Product Codes:	7100; 7400
Chemical Family:	Aromatic carboxylic acid ester

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses: Chemical intermediate; manufacture of substances.

Uses Advised Against: Not for food, pharmaceutical, cosmetic, or animal-feed use.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CrossChem Limited
Address	100 Westwood Place, Brentwood, TN 37027, United States
Telephone	+1 615 716 3510
Email	regulatory@crosschem.net
Website	www.crosschem.net

1.4 Emergency Telephone Number

CHEMTREC (24-hour)	+1 800-424-9300 (US/Canada); +1 703-527-3887 (International, collect)
CHEMTREC Contract No.	CCN5881

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Regulation (EC) No 1272/2008 (CLP):

Hazard Class	Category	Hazard Statement
Combustible Liquid (OSHA HCS)	Category 4	H227 – Combustible liquid
Acute Toxicity – Oral	Category 4	H302 – Harmful if swallowed
Hazardous to the Aquatic Environment – Acute	Category 3	H402 – Harmful to aquatic life
Hazardous to the Aquatic Environment – Chronic	Category 3	H412 – Harmful to aquatic life with long-lasting effects

Note: H227 (Combustible liquid) is an OSHA HCS statement; there is no equivalent CLP hazard class for combustible liquids.

2.2 Label Elements

Signal Word:	WARNING
---------------------	---------



Hazard Statements:

H227	Combustible liquid.
H302	Harmful if swallowed.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long-lasting effects.

Precautionary Statements – Prevention:

P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye protection, and face protection.

Precautionary Statements – Response, Storage and Disposal:

P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
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.
P501	Dispose of contents and container in accordance with local, regional, national, and international regulations.

2.3 Other Hazards

This substance does not meet the criteria for PBT or vPvB per Annex XIII of REACH.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Component	CAS No.	EC No.	Conc. %	CLP Classification
Phenyl acetate	122-79-2	204-575-0	≤ 100	Flam. Liq. 4 (H227); Acute Tox. 4 (H302); Aquatic Acute 3 (H402); Aquatic Chronic 3 (H412)

Molecular weight 136.15 g/mol; molecular formula $C_8H_8O_2$. For the full text of H-statements referenced above, see Section 16.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally launder clothing and shoes before reuse.

Inhalation: Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

Ingestion: Seek medical attention. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Harmful if swallowed. May cause irritation of the eyes, skin, and respiratory tract.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Treatment should be directed at preventing absorption, treating symptoms, and providing supportive therapy.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable	Dry chemical, carbon dioxide (CO ₂), water spray, or alcohol-resistant foam. For large fires use water spray, fog, or alcohol foam.
-----------------	---

Unsuitable	Do not use a solid water jet.
-------------------	-------------------------------

5.2 Special Hazards Arising from the Substance or Mixture

Flash Point	176 °F / 80 °C (Pensky-Martens Closed Cup)
Explosive Limits	LEL / UEL: not determined
Autoignition Temperature	Not determined

Hazardous Combustion Products: Smoke, soot, carbon monoxide, carbon dioxide, and irritating fumes.

Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to internal pressure build-up. Cool with water.

5.3 Advice for Firefighters

Firefighters must wear NIOSH-approved positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition. Wear appropriate personal protective equipment as described in Section 8.

6.2 Environmental Precautions

Prevent entry into drains, sewers, soil, and bodies of water. Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning Up

Stop discharge if safe to do so. Use non-sparking tools and/or explosion-proof equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state/regional, and federal regulations.

6.4 Reference to Other Sections

See Section 8 for exposure controls and Section 13 for disposal considerations.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Wash thoroughly after handling. Keep away from heat, sparks, and open flames. Avoid contact with eyes, skin, and clothing. Ground and bond containers before transfer where practical.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a cool, dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed. **WARNING:** hot organic vapors or mists can combust when mixed with air; evaluate any elevated-temperature process for safe operating conditions. Storage class (TRGS 510): Combustible liquids.

Transfer: Support and ground containers before opening, dispensing, mixing, pouring, or emptying. Open with non-sparking tools. If a container is warm, open the bung slowly to release internal pressure.

Incompatibilities: Strong oxidizing agents.

Empty Container Precautions: Empty containers may retain product residue and remain hazardous. Do not use heat, sparks, open flames, or cutting/welding on or near empty containers.

7.3 Specific End Use(s)

No uses are specified beyond those identified in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Controls

Occupational Exposure Limits: No specific ACGIH TLV or OSHA PEL established for phenyl acetate.

Engineering Controls: Local exhaust ventilation is recommended where vapors or mists can be released.

Personal Protective Equipment:

Eye / Face Protection	Chemical splash goggles (EN 166 / ANSI Z87.1). An eye-wash facility should be readily available.
Skin / Hand Protection	Protective clothing and appropriate impervious gloves; consult glove manufacturer for the proper type.

Respiratory Protection

Avoid breathing vapor and/or mists. Where needed, use NIOSH-approved (US) or EN 166/EN 14387 (EU) respiratory protection. High concentrations may require SCBA or a supplied-air respirator. Programs must comply with 29 CFR 1910.134 (US).

Hygiene Measures: Wash thoroughly after handling. Do not eat, drink, or smoke in work areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	White to clear liquid
Odor	Phenolic
pH	Not applicable
Boiling Point	384 °F / 195.5 °C
Flash Point	176 °F / 80 °C (Pensky-Martens Closed Cup)
Vapor Pressure	0.5 mm Hg at 20 °C
Vapor Density (air = 1)	4.7
Evaporation Rate	< 1 (n-butyl acetate = 1)
Solubility in Water	Slightly soluble
Relative Density / Specific Gravity	1.07
VOC Content	Not established
Non-Volatile Content (% w/w)	< 1
Explosive Properties	Not explosive
Oxidizing Properties	Not oxidizing

The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under recommended handling conditions.

10.2 Chemical Stability

Stable under normal conditions of use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4 Conditions to Avoid

High temperatures, open flames, and ignition sources.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and irritating fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes as Defined in Regulation (EC) No 1272/2008

Acute Toxicity (phenyl acetate):

Route	Species	Value	Source
Oral	Rat	LD50 = 1,756 mg/kg	Phenyl acetate
Dermal	Rabbit	LD50 = 8,616 mg/kg	Phenyl acetate

Classified as Acute Tox. 4 (H302 – Harmful if swallowed) based on the oral value.

Carcinogenicity: No component present at $\geq 0.1\%$ is identified as a carcinogen by IARC, NTP, OSHA, or ACGIH. Not listed under California Proposition 65.

Skin / Eye / Sensitization / Mutagenicity / Reproductive Toxicity / STOT / Aspiration: No data indicating classification for these endpoints.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Test Type	Species	Duration	Value
EC50 / LC50 (invertebrate)	Daphnia magna (water flea)	24 h	63 mg/L

Classified as Aquatic Acute 3 (H402) and Aquatic Chronic 3 (H412) – harmful to aquatic life with long-lasting effects. Avoid release to the environment.

12.2 Persistence and Degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as a chemical safety assessment was not required/not conducted.

12.6 Other Adverse Effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product: Dispose of in accordance with all applicable local, state/regional, national, and international regulations. Recommended order of preference: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Contaminated Packaging: Federal regulations may apply to empty containers; state and/or local regulations may be different.

14. TRANSPORT INFORMATION

US DOT / IATA / IMDG: Not regulated in packaging of less than 119 gallons.

When packaged in containers of 119 gallons or more, regulated under 49 CFR as a combustible liquid: **Proper Shipping Name** – Combustible liquid, n.o.s.; **ID No.** – NA 1993; **Label** – None; **Packing Group** – III.

Environmental Hazards	Harmful to aquatic life (H402/H412); not classified as a marine pollutant.
------------------------------	--

15. REGULATORY INFORMATION

15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

United States:

OSHA HCS (29 CFR 1910.1200)	Classified as hazardous. This SDS conforms to the May 2024 amendment (89 FR 44144; effective July 19, 2024).
SARA Title III, §311/312	Fire hazard; immediate (acute) health hazard; delayed (chronic) health hazard.
SARA Title III, §302 / §313	No components subject to reporting.
TSCA Inventory	All components are listed on or exempt from the TSCA Inventory.
California Proposition 65	Not listed.
State Right-to-Know (PA / NJ)	Phenyl acetate (CAS 122-79-2) listed.

Canada:

WHMIS 2015 (HPR)	Flammable/Combustible – Category 4 (combustible liquid); Acute Toxicity, Oral – Category 4. Complies with the Hazardous Products Regulations (SOR/2015-17).
DSL / NDSL	Listed on the Domestic Substances List (DSL) or exempt.

European Union / United Kingdom:

SDS Format – (EU) 2020/878	Prepared in accordance with Commission Regulation (EU) 2020/878 amending Annex II of REACH.
CLP – (EC) No 1272/2008	Classified and labeled as shown in Section 2.
REACH / UK REACH	Coverage applicable to product supplied through CrossChem Limited's authorized distribution channels. A controlled statement is available to qualified customers upon request.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance.

16. OTHER INFORMATION

Full Text of H-Statements Referenced in Sections 2 and 3

H227	Combustible liquid.
H302	Harmful if swallowed.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long-lasting effects.

Hazard Rating Systems

Category	HMIS III	NFPA 704
Health	1	1
Flammability	2	2
Physical Hazard / Reactivity	0	0
Personal Protection	X (consult supervisor)	—

Rating scale: 0 = minimal, 4 = severe.

Key to Abbreviations and Acronyms

Acute Tox.	Acute toxicity
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (US)
CLP	Classification, Labelling and Packaging Regulation (EC) No 1272/2008
DOT	Department of Transportation (US)
DSL	Domestic Substances List (Canada)
EC	European Community
ECHA	European Chemicals Agency
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Materials Identification System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
NFPA	National Fire Protection Association

NIOSH	National Institute for Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	Occupational Safety and Health Administration (US)
PBT	Persistent, bioaccumulative, and toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
SARA	Superfund Amendments and Reauthorization Act
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure
STOT RE	Specific target organ toxicity – repeated exposure
SVHC	Substance of Very High Concern
TSCA	Toxic Substances Control Act (US)
UN	United Nations
vPvB	Very persistent and very bioaccumulative
WHMIS	Workplace Hazardous Materials Information System (Canada)

Revision Information

Version	3.0
Revision Date	July 9, 2026
Supersedes	Version 2.0 (May 22, 2024)
Summary of Changes	Reformatted to current CrossChem Limited SDS template; expanded to the full 16-section structure. Section 15 expanded (SARA, WHMIS 2015, REACH/UK REACH). Hazard classification preserved as issued (H227 / H302 / H402 / H412). Note added that H227 is an OSHA HCS statement with no CLP equivalent.

Product Use: Chemical intermediate; manufacture of substances.

Disclaimer

The information contained herein relates only to the specific material identified and is believed by CrossChem Limited to be accurate and reliable as of the date of issue. However, no representation, guarantee, or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. CrossChem Limited shall not be liable for any damage resulting from handling or contact with this product. Users are responsible for satisfying themselves as to the suitability and completeness of this information for their particular application and for compliance with all applicable laws and regulations. This SDS supersedes all previous editions for this product.

— End of Safety Data Sheet —