

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Picric Acid-Acetone 0.05%
Part Number: 13351
CAS-No.: Not applicable
SDS Number: 3990

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
 2505 Parview Road
 Middleton, WI 53562 USA

Telephone: 1-800-383-7799

Fax: 1-608-831-0866

Website: www.newcomersupply.com

Email: newly@newcomersupply.com

24 HOUR EMERGENCY CONTACT
 CALL CHEMTREC: 1-800-424-9300
 Contact CHEMTREC only in the event of
 an emergency involving a chemical spill,
 leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION
2.1 Classification of the substance or mixture

GHS Classification, (in accordance with 29 CFR1910.1200)

Flammable liquid, Category 2

Serious Eye Damage/Eye irritation, Category 2A

Specific Target Organ Toxicity – Single exposure, Category 3

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- Highly flammable liquid and vapour
- Causes serious eye irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness

Precautionary Statement(s):

Prevention:

- Keep away from heat/sparks/open flames/hot surfaces – No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof fume hood/electrical/ventilating/light/.../equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapours/spray
- Use only outdoors or in a well-ventilated area

Response:

- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

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Storage:

- Store in a well ventilated place. Keep cool. Keep container tightly closed.
- Store locked up

Disposal:

- Dispose of contents/ container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS
**3.2 Mixture
Hazardous Components**

Component		Concentration
Name	Acetone	
CAS-No.	67-64-1	>99%
Name	Picric Acid	
CAS-No.	88-89-1	0.05%

4. FIRST-AID MEASURES
4.1 Description of necessary measures
Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Call a POISON CENTER or doctor/physician if you feel unwell.

Eye Contact

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.

Ingestion (swallowed)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed

The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES
5.1 Suitable extinguishing media

Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture

No data available

5.3 Protective equipment and precautions for fire-fighters

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health	Fire	Reactivity
hazard: 1	hazard: 3	hazard: 0

6. ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions, protective equipment and emergency procedures

Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

6.2 Methods and material for containment and cleaning up

Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control Parameters

Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Acetone	67-64-1	OSHA PEL	TWA	1,000 ppm (2,400 mg/m ³)
		ACGIH TLV	TWA	750 ppm (1,780 mg/m ³)
		ACGIH TLV	STEL	1,000 ppm (2,380 mg/m ³)
		NIOSH REL	TWA	250 ppm (590 mg/m ³)
Picric Acid	88-89-1	OSHA PEL	TWA	0.1 mg/m ³ (skin)
		ACGIH TLV	TWA	0.1 mg/m ³ (skin)
		NIOSH REL	TWA	0.1 mg/m ³ (skin)
		NIOSH REL	STEL	0.3 mg/m ³ (skin)

8.2 Exposure Controls
Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment
Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

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Body Protection

No data available

Respiratory Protection

Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Where the potential exists for exposure over 250 ppm: use a NIOSH approved full facepiece respirator with an organic vapor cartridge. Increased protection is obtained from full facepiece powered-air purifying respirators. Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect acetone, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator. Check to make sure the respirator-to-face seal is still good. If it is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.

Consider all potential sources of exposure in your workplace. You may need a combination of filters, prefilters or cartridges to protect against different forms of a chemical (such as vapor and mist) or against a mixture of chemicals.

Where the potential for high exposure exists, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.

Exposure to 2,500 ppm is immediately dangerous to life and health. If the possibility of exposure above 2,500 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.

In case of emergency, entry into unknown concentrations, or escape, select the highest level approved respiratory protection available.

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Physical state	Clear, colorless liquid
Odor	Mint-like odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	ca. -94.3°C (ca. -132.7°F)
Initial boiling point and boiling range	ca. 56.1°C (ca. 133°F)
Flash point	ca. -17.8°C (ca. 0°F)
Evaporation rate	~7.7
Flammability (solid, gas)	Flammable liquid
Upper flammability or explosive limits	12.8%
Lower flammability or explosive limits	2.5%
Vapor pressure	180 mm Hg at 20°C
Vapor density	No data available
Relative density	~0.786
Solubility(ies)	Miscible with water

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Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials

Acetone may explode when mixed with nitrosyl perchlorate; and chloroform or bromoform in the presence of a base. Acetone reacts with oxidizing agents: perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine; acetic acid; and nitric acid to form explosive peroxides. Acetone attacks plastics.

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

Headache, lightheadedness, nasal irritation were noted in workers exposed to concentrations considerably in excess of 1,000 ppm and perhaps as high as 6,500 ppm. Exposure to high concentrations can cause headache, nausea and vomiting, dizziness, lightheadedness and even passing out.

Oral exposure

Headache, lightheadedness, throat irritation were noted in workers exposed to concentrations considerably in excess of 1,000 ppm and perhaps as high as 6,500 ppm. Exposure to high concentrations can cause headache, nausea and vomiting, dizziness, lightheadedness and even passing out.

Dermal exposure

No data available

Skin corrosion/irritation

Acetone can affect you when inhaled and may be absorbed through the skin. Acetone can cause skin irritation. Prolonged or repeated exposure can cause drying and cracking of the skin with redness.

Serious eye damage/irritation

Acetone has been reported to cause burning sensation in the eyes at vapor concentration of 500 ppm. Reports of irritation in acclimated workers include a range of 1000-1500 ppm.

Respiratory or skin sensitization

Acetone exposure can irritate the nose.

Germ Cell mutagenicity

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No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Acetone may affect the kidneys and liver.

Specific target organ toxicity - repeated exposure

Acetone may affect the kidneys and liver.

Aspiration hazard

No data available

Acute toxicity

Acetone:

LD50 rat oral 5800 mg/kg

LD50 rabbit oral 5340 mg/kg

LD50 mouse oral 3000 mg/kg

LCLo mouse inhalation 45,455 ppm/1H

Carcinogenicity

IARC: None of the components are listed

NTP: None of the components are listed

OSHA: None of the components are listed

Additional information

RTECS: No data available

12. ECOLOGICAL INFORMATION
12.1 Ecotoxicity

No data available

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 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS
13.1 Waste disposal methods
Contents

Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION
14.1 DOT (US)
UN-Number

1090

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Proper shipping name	Acetone	
Hazard class		3
Packing group	II	
Environmental hazards	No data available	

15. REGULATORY INFORMATION**15.1** No data available**16. OTHER INFORMATION**

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com
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