

Issuing date: 03/04/2015 **Revision date:** 01/11/2017 **Revision number:** 01

1. Identification of the substance/preparation and the company/undertaking

GHS product identifier

Product name: Acetaminophen Oral Solution USP

Other means of identification

Product code(s): 0121-0657-05, 0121-0657-11, 0121-0657-21, 0121-0657-00, 0121-1314-11,

0121-1314-00, 0121-1971-21, 0121-1971-00

UN-Number: NA

Synonyms: Compare to Tylenol®

Recommended use of the chemical and restrictions on use

Recommended use: Pharmaceutical product used for pain relief and to reduce fever.

Uses advised against: Do not use except as recommended.

Supplier address/information

Pharmaceutical Associates, Inc.

201 Delaware Street

Greenville, SC 29605 (864) 277 -7282

Emergency telephone number: CHEMTREC 800.424.9300

2. Hazards Identification

Classification This product is a mixture and is a pharmaceutical product. It is considered non-

Hazardous according to the OSHA Hazard Communication Standard 2012

(29 CFR 1910.1200).

Chemical family: Mixture

Statement of Hazard: Product is safe used as recommended.

Additional Hazard Information:

Short term: Acetaminophen has been associated with cases of acute liver failure resulting in

liver transplant and death. Most of the cases of liver injury are associated with the use of acetaminophen at doses that exceed 4000 milligrams per day, and

often involve more than one acetaminophen containing product.

Long term: No data available.

Known Clinical Effects: Overdosage may lead to liver damage.

EU Indication of danger: Not classified.



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Emergency overview

Seek medical attention in case of accidental exposure or overdose. The product is generally safe when used as prescribed.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential of exposure in your workplace.

Precautionary statements

General advice: Seek medical attention in case of accidental exposure or overdose.

Eyes: Avoid contact with eyes.

Skin Contact: Avoid skin contact.

Inhalation: Not intended for inhalation.

Ingestion: Generally safe at recommended doses. In case of overdose, seek medical attention immediately.

Storage: There are no special storage conditions for safety. For product integrity, store under conditions

specified on the label.

Disposal: Dispose of in accordance with applicable laws and regulations.

3. Composition/Information on ingredients

Chemical name	CAS-No	mg/5 mL	Trade Secret
Acetaminophen	103-90-2	160 mg/5 mL	
Glycerin	56-81-5		X
Polyethylene Glycol 400	25322-68-3		Χ
Propylene Glycol	57-55-6		X
Sorbitol Solution	Mixture		Χ
Sodium Benzoate	532-32-1		Χ
Citric Acid Anhydrous	77-92-9		Χ
Sodium Citrate	6132-04-3		Χ
Sucrose	57-50-1		Χ
FD&C Red No. 40	25956-17-6		Χ
Fruit Flavors	Mixture		X



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4. First aid measures

Description of necessary first-aid measures

Eye contact:

Flush with running water for 15 minutes holding eyelids open. Contact medical personnel if irritation persists.

Skin contact:

Wash contaminated area thoroughly. If irritation persists, contact medical personnel.

Inhalation:

Remove to fresh air and contact medical personnel.

Ingestion:

Overdosage or accidental ingestion – Toxicity may result from acetaminophen overdosage. Contact medical personnel or poison control immediately if overdosage is suspected.

Most important symptoms/effects, acute and delayed

Overdosage may cause liver damage.

Indication of immediate medical attention and special treatment needed, if necessary

Immediate medical attention is required if overdose is suspected.

Notes to Physician: NA

5. Fire-fighting measures

Suitable extinguishing media: Use carbon dioxide, dry chemical or water spray.

Specific hazards arising from the chemical None

Explosion data: Not applicable

Protective equipment and precautions

for firefighters'

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment

and emergency procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (See Section 8). Minimize

exposure.

Environmental precautions Place waste in an appropriately labeled, sealed container for

disposal. Care should be taken to avoid environmental release.

Methods and materials for containment and cleaning up

Methods for containment: Isolate area around spill as specified by site procedures.

Methods for cleaning up:

Absorb the liquid with suitable material. Dispose of spill material in accordance with applicable federal, state or local regulations.



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7. Handling and storage

Precautions for safe handling

Handling: No special handling required for hazard control under conditions

of normal product use.

Conditions for safe storage, including any incompatibilities

Storage: No special storage required for hazard control. For product

protection, follow storage recommendations on the case label,

primary product label and insert.

Incompatible products: As a precautionary measure, keep away from strong oxidizers.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines: The exposure guidelines listed below are for the individual components and not the product itself.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetaminophen	Not Available	Not Available	Not Available
Glycerin	10 mg.m ³ TWA	10 mg.m ³ TWA	Not Available
Polyethylene Glycol 400	10 mg/m ³ TWA (WEEL)	Not Available	Not Available
Propylene Glycol	Not Available	10 mg.m³ TWA (WEEL)	Not Available
Sorbitol Solution	Not Available	Not Available	Not Available
Sodium Benzoate	Not Available	Not Available	Not Available
Citric Acid Anhydrous	10 mg/m³ TWA	15 mg/m³ TWA	Not Available
Sodium Citrate	Not Available	Not Available	Not Available
Sucrose	10 mg/m ³	15 mg/m ³	10 mg/m ³ TWA
FD&C Red No. 40	Not Available	Not Available	Not Available
Fruit Flavors	Not Available	Not Available	Not Available

Appropriate engineering controls

Engineering measures: Engineering controls should be used to limit exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection: Not required under normal conditions of use. Wear safety glasses or goggles if

eve contact is possible.

Skin and body protection: Not required under normal conditions of use. Wear protective clothing when

working with large quantities.

Respiratory protection: Not required under normal use of the product. If the applicable PEL

(Permissible Exposure Limit) is exceeded use an appropriate respirator.

Hygiene measures: Wash hands thoroughly after use.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Solution Odor: Fruity

Appearance: Clear red solution
Odor threshold: Not available

Property	Values	Remarks/Method
рН	3.8 – 6.1	Current USP
Melting point/range	Not applicable	
Boling point/boiling range	Not available	
Flash point	Not applicable	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Not applicable	
Flammability limits in air	Not applicable	
-upper flammability limit	Not applicable	
-lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	1.2	Current USP
Water solubility	Not applicable	
Solubility in other solvents	Not applicable	
Partition coefficient: n- octanol/water	Not applicable	
Autoignition temperature	Not applicable	
Decomposition temperature	Not applicable	
Viscosity	Not available	
Flammable properties	Not applicable	
Explosive properties	Not applicable	
Oxidizing properties	Not applicable	

Other information VOC content (%)

NA



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10. Stability and reactivity

Reactivity Stable at normal conditions

Chemical stability Stable at normal conditions

Possibility of hazardous reactions Stable at normal conditions

Conditions to avoid None known

Incompatible materials As a precautionary measure, keep away from strong oxidizers.

Hazardous decomposition products None known

11. Toxicological information

Information on likely routes of exposure

Product information:

Inhalation: Not Available
 Eye contact: Not Available
 Skin contact: Not Available
 Ingestion: Not Available

The information in the table below is for the individual components and not the product.

Chemical name	LD50 oral	LD50 dermal	LC50 inhalation
Acetaminophen	1944 mg/kg Rat	Not Available	Not Available
Glycerin	12600 mg/kg Rat	10000 mg/kg Rabbit	Not Available
Polyethylene Glycol 400	30200 mg/kg Rat	20000 mg/kg Rabbit	13 ppm 8 hr Rat
Propylene Glycol	20000 mg/kg Rat	20800 mg/kg Rabbit	Not Available
Sorbitol Solution	Not Available	Not Available	Not Available
Sodium Benzoate	2100 mg/kg Rat	Not Available	Not Available
Citric Acid	5400 mg/kg Rat	>2000 mg/kg Rat	Not Available
Sodium Citrate	Not Available	Not Available	Not Available
Sucrose	29700 mg/kg Rat	Not Available	Not Available
FD&C Red No.40	>10000mg/kg Rat	>10000 mg/kg Rabbit	Not Available
Fruit Flavors	Not Available	Not Available	Not Available



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Symptoms related to the physical, chemical and toxicological characteristic:

No data available

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization:

Mutagenic effects:

Carcinogenicity:

Reproductive toxicity:

STOT – single exposure:

STOT – repeated exposure:

Aspiration hazard:

No data available

No data available

No data available

No data available

• Numerical measures of toxicity – product No data available

12. Ecological information

Ecotoxicity:

Environmental properties have not been thoroughly evaluated. Releases to the environment should be avoided.

Persistence and Degradability:

No data available

Bioaccumulation:

No data available

Other adverse effects:

No data available



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The following table lists the data for the individual components, if available.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to micro- organisms	Daphnia Magna (water flea)
Acetaminophen	Not Available	814 mg/L 96 hr. Pimephales promelas	Not Available	9.2 mg/L 48 hr.
Glycerin	Not Available	58.5 ppm 96 hr Trout	Not Available	Not Available
Polyethylene Glycol 400	Not Available	>5000 mg/L 96 hr Pimephales Promelas	Not Available	Not Available
Propylene Glycol	Not Available	52930 mg/L 96 hr. Pimephales promelas	Not Available	13020 mg/L 48 hr.
Sorbitol Solution	Not Available	Not Available	Not Available	Not Available
Sodium Benzoate	Not Available	484 mg/L 96 hr. Pimephales Promelas	Not Available	Not Available
Citric Acid	Not Available	440 mg/L 48 hr Leuciscus idus melanotus	Not Available	1535 mg/L 24 hr.
Sodium Citrate	Not Available	Not Available	Not Available	Not Available
Sucrose	Not Available	Not Available	Not Available	Not Available
Fruit Flavors	Not Available	Not Available	Not Available	Not Available
FD&C Red No. 40	Not Available	Not Available	Not Available	Not Available

13. Disposal considerations

Waste disposal methods

Dispose of waste in accordance with all federal, state and local regulations.

Contaminated packaging

Dispose of waste in accordance with all federal, state and local regulations.

14. Transport information

Notes:

Not regulated for transport under USDOT, IATA, TDG, IMDG or other regulations.



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15. Regulatory information

International inventories

TSCA:

United States Toxic Substances Control Act 8(b) inventory not applicable for product. The following components are included on the inventory: Acetaminophen, Glycerin, Polyethylene Glycol, Propylene Glycol, Sodium Benzoate, Citric Acid, Sucrose and FD&C Red No. 40.

EINECS:

Acetaminophen, FD&C Red no. 40, Glycerin, Polyethylene Glycol, Propylene Glycol, Sodium Benzoate, Citric Acid, Sodium Citrate and Sucrose are listed on the EINECS inventory.

U.S. Federal regulations

OSHA Label:

Not applicable

SARA 311/312 Hazard categories:

Not Applicable

Clean Water Act:

This product **does not** contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

No components are listed under CERCLA.

California Proposition 65:

This product does not contain any chemical which is listed as under Proposition 65.

U.S. state Right-to-Know regulations

"X" designates that the ingredients are listed on the state Right-to-Know list

Chemical name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Acetaminophen	Х		X		
Glycerin	X	Х	X	Х	X
Polyethylene Glycol	X		X		
Propylene Glycol	X		X		
Sorbitol Solution	X		X		
Sodium Benzoate	Х		X		
Citric Acid	X		X		
Sodium Citrate	X		X		
Sucrose	X	X	X		
Fruit Flavors					
FD&C Red No. 40					

U.S. EPA label information:

Not applicable



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16. Other information

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Revision note: • Updated Section 1 to add NDC Numbers 0121-0657-00,

0121-1314-11, 0121-1314-00, 0121-1971-21, and 0121-1971-00

• Removed "May burn emitting oxides of chlorine and nitrogen" from section 5 and replaced it with "none."

Updated formatting, grammar and punctuation throughout the

document.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet