

Safety Data Sheet

AC-32

SDS Revision Date:

02/23/2016



1. Identification

1.1. Product identifier

Product Identity AC-32

Alternate Names AC-32

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use 1,2,4-benzenetricarboxylic acid, ester with 1,2,3-propanetriol for industrial use.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Broadview Technologies
7-33 Amsterdam Street
Newark, NJ 07105

Emergency

CHEMTREC (USA) (800) 424-9300

Customer Service: Broadview Technologies (973)-465-0077

2. Hazard(s) identification

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements

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3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Benzene-1,2,4-tricarboxylic acid - propane-1,2,3-triol CAS Number: 0071243-42-0	100	Not Classified	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed, immediately give 3-4 glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

4.2. Most important symptoms and effects, both acute and delayed

Overview	No specific symptom data available.
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5. Fire-fighting measures

5.1. Extinguishing media

Foam, carbon dioxide, dry chemical, water.

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5.2. Special hazards arising from the substance or mixture

For non-emergency personnel: Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

For emergency responders: Caution! If spilled, wet floors may become slippery. Wear appropriate protective gear and respiratory protection where dusts or airborne particulates of unknown concentrations may be generated (self-contained breathing apparatus preferred for large spills).

Hazardous decomposition: The combustion products are toxic. As with most powdered organic compounds, dust explosions may be possible.

Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon.

5.3. Advice for fire-fighters

Firefighting personnel must wear NIOSHJ/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Wear full protective clothing and self-contained breathing apparatus. Cool fire exposed containers with water spray. If water must be used, use a fog nozzle to avoid spattering of hot material and spread of burning liquid.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

For non-emergency personnel: Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

For emergency responders: Caution! If spilled, wet floors may become slippery. Wear appropriate protective gear and respiratory protection where dusts or airborne particulates of unknown concentrations may be generated (self-contained breathing apparatus preferred for large spills).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

For non-emergency personnel: Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

For emergency responders: Caution! If spilled, wet floors may become slippery. Wear appropriate protective gear and respiratory protection where dusts or airborne particulates of unknown concentrations may be generated (self-contained breathing apparatus preferred for large spills).

Shovel spills into appropriate containers for recovery or disposal. Wet residue with water and absorb with inert material (sand, earth, etc.) and transfer into appropriate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

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7. Handling and storage

7.1. Precautions for safe handling

Observe conventional hygiene precautions.
Keep containers tightly closed until used.

7.2. Conditions for safe storage, including any incompatibilities

Keep Containers tightly closed until used.
Follow all instructions on the label.
Incompatible materials: Bases, oxidizing agents.

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0071243-42-0	Benzene-1,2,4-tricarboxylic acid - propane-1,2,3-triol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. In the absence of proper environmental controls, a NIOSH/MSHA jointly approved respirator is advised.

Eyes

Wear chemical goggles where there is potential for eye contact. Use safety glasses with side shields under normal use conditions.

Skin

To prevent skin contact, rubber or neoprene gloves are recommended.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Eye wash stations, safety showers, and protective clothing should be provided to all workers. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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9. Physical and chemical properties

Appearance	Not Provided. Solid
Odor	Slight
Odor threshold	Not determined
pH	Not Measured
Melting point / freezing point	ca. 90°C
Initial boiling point and boiling range	No data available
Flash Point	ca. 180°C
Evaporation rate (Ether = 1)	<1
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	No data available
Vapor Density	No data available
Specific Gravity	Not Measured
Solubility in Water	Slightly soluble in water (it hydrolyzes).
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity (cSt)	Not Applicable
VOC Content	Nil
9.2. Other information	No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Bases, oxidizing agents.

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10.6. Hazardous decomposition products

The combustion products are toxic. As with most powdered organic compounds, dust explosions may be possible. Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Benzene-1,2,4-tricarboxylic acid - propane-1,2,3-triol - (71243-42-0)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
0071243-42-0	Benzene-1,2,4-tricarboxylic acid - propane-1,2,3-triol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Benzene-1,2,4-tricarboxylic acid - propane-1,2,3-triol - (71243-42-0)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine Pollutant: No;

14.6. Special precautions for user

No further information

DOT (Domestic Surface Transport)

Not Applicable

Not Regulated

DOT Hazard Class: Not Applicable

Not Applicable

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15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	Not Regulated
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): No Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

Benzene

Benzene, (chloromethyl)-

Proposition 65 - Developmental Toxins (>0.0%):

Benzene

Toluene

Proposition 65 - Female Repro Toxins (>0.0%):

Toluene

Proposition 65 - Male Repro Toxins (>0.0%):

Benzene

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is: Not applicable

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