

# SAFETY DATA SHEET



## Section 1. Identification

Product name	Acetic Anhydride
Chemical name	Acetic anhydride
Other means of identification	Acetic anhydride, Acetic acid anhydride, Acetic oxide, Ethanoic anhydride, Acetyl oxide
SDS #	0000001072
Historic SDS #:	11007, 1514
Code	0000001072

### Relevant identified uses of the substance or mixture and uses advised against

Product use	<input checked="" type="checkbox"/> Manufacture of chemicals. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	BP Amoco Chemical Company 150 West Warrenville Road Naperville, Illinois 60563-8460 USA Tel: 1 (877) 701-2726
EMERGENCY HEALTH INFORMATION:	1 (800) 447-8735  Outside the US: +1 703-527-3887 (CHEMTREC)
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)

## Section 2. Hazards identification

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<input checked="" type="checkbox"/> FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B

### GHS label elements

#### Hazard pictograms



#### Signal word

☒ Danger

#### Hazard statements

Flammable liquid and vapor.  
Fatal if inhaled.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.

### Precautionary statements

#### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. Wear respiratory protection. Wear protective gloves/clothing and eye/face protection.

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## Section 2. Hazards identification

<b>Response</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower].  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  Immediately call a POISON CENTER or doctor/physician.
<b>Storage</b>	Store container tightly closed in well-ventilated place.
<b>Disposal</b>	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	Corrosive to the respiratory tract.
<b>Hazards not otherwise classified</b>	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	Substance	
<b>Ingredient name</b>	<b>CAS number</b>	<b>%</b>
acetic anhydride	108-24-7	100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	☑ In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
<b>Skin contact</b>	☑ Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Clean shoes thoroughly before reuse. Chemical burns must be treated promptly by a physician.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
<b>Ingestion</b>	☑ Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

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## Section 4. First aid measures

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

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
Specific treatments	No specific treatment.

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. (alcohol-resistant foam)
Unsuitable extinguishing media	<input checked="" type="checkbox"/> Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

### Specific hazards arising from the chemical

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors can form explosive mixtures with air. Vapors are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

### Hazardous combustion products

☒ Combustion products may include the following:  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

### Special protective actions for fire-fighters

☒ DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from area and allow the fire to burn. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

### Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill	<input checked="" type="checkbox"/> Eliminate all ignition sources. Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.
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## Section 6. Accidental release measures

### Large spill

Eliminate all ignition sources. Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spill area and do not allow product to reach sewage system and surface or ground water. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Do not reuse container. Empty containers retain product residue and can be hazardous.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep away from heat and direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabeled containers. Do not allow water to enter container because a violent reaction may occur. Store in containers made from materials proven to be resistant to the substance under local operating conditions.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Acetic anhydride	<b>ACGIH TLV (United States).</b> STEL: 3 ppm 15 minutes. Issued/Revised: 12/2010 TWA: 1 ppm 8 hours. Issued/Revised: 12/2010 <b>OSHA PEL (United States).</b> TWA: 20 mg/m <sup>3</sup> 8 hours. Issued/Revised: 6/1993 TWA: 5 ppm 8 hours. Issued/Revised: 6/1993

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

## Section 8. Exposure controls/personal protection

### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

 Recommended: Chemical splash goggles. Face shield.


#### Skin protection

##### Hand protection

Wear chemical resistant gloves. Butyl rubber gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

##### Body protection

 Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Wear suitable protective clothing.

Footwear highly resistant to chemicals.

When there is a risk of ignition wear inherently fire resistant protective clothes and gloves.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static.

When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required.

Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes.

#### Recommended:

Hard hat.

Chemical resistant boots.

Chemical resistant apron

Full chemical protective suit with a hood.

Chemical protective suit consisting of a jacket and trousers. The jacket should be

## Section 8. Exposure controls/personal protection

buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

Use only with adequate ventilation. Do not breathe vapor or mist. If ventilation is inadequate, use NIOSH-certified respirator which will protect against organic vapor. If operating conditions cause high vapor concentrations or the TLV is exceeded, use NIOSH-certified, supplied-air respirator.

Use with adequate ventilation.

If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

## Section 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Color	Colorless.
Odor	Pungent. Lacrimator. [Strong]
Odor threshold	0.117 ppm
pH	Not available.
Melting point	-73°C (-99.4°F)
Boiling point	139.5°C (283.1°F)
Flash point	Closed cup: 49°C (120.2°F)
Evaporation rate	0.46 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable. Based on - Physical state
Lower and upper explosive (flammable) limits	Lower: 2.7% Upper: 10.3%
Vapor pressure	0.68 kPa (5.1 mm Hg) [25°C (77°F)]
Vapor density	3.5 [Air = 1]
Density	1082 kg/m³ (1.082 g/cm³) at 20°C
Solubility	insoluble in water. (Reacts with water to form acetic acid (hydrolysis). Acetic acid.- 100% Miscible in water.)
Solubility	Easily soluble in the following materials: cold water.
Partition coefficient: n-octanol/water	-0.5774
Auto-ignition temperature	316°C (600.8°F)
Decomposition temperature	Not available.
Viscosity	Dynamic: 0.001 Pa·s (0.842 cP) at 25°C

## Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

### Conditions to avoid

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## Section 10. Stability and reactivity

Keep away from heat, sparks and flame. Keep away from sources of ignition. Keep from any possible contact with water.

### Incompatible materials

Extremely reactive or incompatible with the following materials: moisture.  
Reactive or incompatible with the following materials: oxidizing materials, acids, alkalis, and alcohols.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Test	Species	Result	Exposure	Remarks
Acetic anhydride	LC100 Inhalation Vapor	Rat - Male	1670 mg/m <sup>3</sup>	6 hours	-
	LD50 Oral	Rat	630 mg/kg	-	-
Conclusion/Summary	Not available.				

#### Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	Remarks
Acetic anhydride	Rat	Eyes - Irritant	-	6 hours 20 ppm	90 days	20 ppm	Exposure to vapor

#### Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
Acetic anhydride	OECD 473	Experiment: In vitro Subject: Mammal - species unspecified	Negative	Based on Acetic acid.
	OECD 476	Experiment: In vitro Subject: Mammal - species unspecified	Negative	-
	OECD 471	Experiment: In vitro Subject: Non-mammalian species	Negative	-
	Equivalent to OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative	-

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
acetic anhydride	Category 3	Not applicable.	Respiratory tract irritation

### Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

#### Potential acute health effects

Eye contact	Causes serious eye damage.
Skin contact	Causes severe burns.
Inhalation	Fatal if inhaled. Corrosive to the respiratory tract. Causes burns.

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## Section 11. Toxicological information

**Ingestion** Harmful if swallowed. Causes burns to mouth, throat and stomach. Corrosive to the digestive tract. Causes burns.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:  
pain  
watering  
redness

**Skin contact** Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Inhalation** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Ingestion** Adverse symptoms may include the following:  
stomach pains  
nausea or vomiting

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

#### Short term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

#### Long term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

#### Potential chronic health effects

**General** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

**Other information** Vapor is strongly irritating to the eyes and respiratory system. Lacrimator.

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## Section 12. Ecological information

### Toxicity

No testing has been performed by the manufacturer.

Product/ingredient name	Species	Test/Result	Exposure	Effects	Remarks
Acetic anhydride	Algae	Acute EC50 >300. 82 mg/l Nominal Marine water	72 hours	(growth rate)	Based on Acetate ion
	Algae	Acute EC50 55. 22 mg/l Measured Fresh water	72 hours	(growth rate)	Based on Acetic acid.
	Daphnia	Acute EC50 >300. 82 mg/l Nominal Fresh water	48 hours	Mobility	Based on Acetate ion
	Fish	Acute LC50 >300. 82 mg/l Nominal Fresh water	96 hours	Mortality	Based on Acetate ion
	Micro-organism	Acute NOEC 1150 mg/l Nominal Fresh water	16 hours	-	-
Conclusion/Summary		Not available.			

### Persistence and degradability

Readily biodegradable

Product/ingredient name	Test	Result	Remarks
Acetic anhydride	not guideline	96 % - Readily - 20 days	Based on Acetic acid.
	not guideline	50 % - Readily - 2 days	Based on Acetic acid.
Conclusion/Summary		Not available.	

### Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) Not available.

Mobility Reacts with water to form acetic acid (hydrolysis).

Acetic acid. - This product may move with surface or groundwater flows because its water solubility is: 100% Miscible in water.

**Other ecological information** This product will hydrolyze rapidly to the acid.; expected to be slightly toxic to aquatic species because of acidity

## Section 13. Disposal considerations









**Disposal methods** The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

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## Section 13. Disposal considerations

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1715	UN1715	UN1715	UN1715
UN proper shipping name	Acetic anhydride RQ	Acetic anhydride	Acetic anhydride	Acetic anhydride
Transport hazard class(es)	8 (3)  	8 (3)  	8 (3)  	8 (3)  
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.
Additional information	<b>Reportable quantity</b> 5000 lbs / 2270 kg [554.22 gal / 2098 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	<b>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations:</b> 2.40-2.42 (Class 8), 2.18-2.19 (Class 3).	<b>Emergency schedules</b> F-E, S-C	-

**Special precautions for user** Not available.

<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	<b>Proper shipping name</b>	Acetic anhydride
	<b>Ship type</b>	2
	<b>Pollution category</b>	Z

## Section 15. Regulatory information

### U.S. Federal regulations

**United States inventory (TSCA 8b)** All components are listed or exempted.

### SARA 302/304

#### Composition/information on ingredients

No products were found.

### SARA 311/312

#### **Classification**

**FLAMMABLE LIQUIDS** - Category 3  
**ACUTE TOXICITY (oral)** - Category 4  
**ACUTE TOXICITY (inhalation)** - Category 2  
**SKIN CORROSION** - Category 1B  
**HNOC** - Corrosive to digestive tract

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## Section 15. Regulatory information

### SARA 313

#### Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

#### Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

### State regulations

#### Massachusetts

The following components are listed: ACETIC ANHYDRIDE

#### New Jersey

The following components are listed: ACETIC ANHYDRIDE; ACETIC ACID, ANHYDRIDE

#### Pennsylvania

The following components are listed: ACETIC ACID, ANHYDRIDE

#### California Prop. 65

No products were found.

### Other regulations

#### Australia inventory (AICS)

All components are listed or exempted.

#### Canada inventory

All components are listed or exempted.

#### China inventory (IECSC)

All components are listed or exempted.

#### Japan inventory (ENCS)

All components are listed or exempted.

#### Korea inventory (KECI)

All components are listed or exempted.

#### Philippines inventory (PICCS)

All components are listed or exempted.

#### Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

#### REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



### History

#### Date of issue/Date of revision

08/06/2018.

#### Date of previous issue

07/08/2014.

#### Prepared by

Product Stewardship

### Key to abbreviations

ACGIH = American Conference of Industrial Hygienists  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS Number = Chemical Abstracts Service Registry Number  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OEL = Occupational Exposure Limit  
SDS = Safety Data Sheet  
STEL = Short term exposure limit  
TWA = Time weighted average  
UN = United Nations  
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.  
Varies = may contain one or more of the following 101316-69-2, 101316-70-5,

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## Section 16. Other information

101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

Indicates information that has changed from previously issued version.

### Notice to reader

*All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.*

*The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.*

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