

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Chem 50/50 Antifreeze Bulk
Other Identifiers:	Loaded stream charge

Product Code(s): 506B

Model Code(s) for Fire Extinguishers:

Recommended Uses: Anti-freeze charge for water fire extinguisher, not for

human of animal drug use

Manufacturer: AMEREX CORPORATION

Internet Address: <u>www.amerex-fire.com</u>

Address: 7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: info@amerex-fire.com

Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527–3887

Revised: May, 2016

Section 2. HAZARDS IDENTIFICATION

GHS - Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: NA	None	None
Skin Sensitization: NO	None	None
Eye: NA	None	None
STOT - NO	None	None
Carcinogen: Category None	None	None

GHS – Label Symbol(s): None

GHS – Signal Word(s): None

Other Hazards Not Resulting in Classification: None

GHS - Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	None	
Health	None	
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	None	
Response	None	
Storage	None	

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Water	NA	NA	7732-18-5	<50
Potassium acetate	204-822-2	NA	127-08-2	<50
Phosphoric Acid	231-633-2	01-2119485924-24- 0037	7664-38-2	<1
Purple Pigment	228-767-9	NA	6358-30-1	<1

Emergency overview:

Adverse health effects and symptoms:

Light purple liquid solution.

This product may be a mild irritant to the respiratory system, eyes, and skin. Symptoms may include coughing, sore throat, difficulty breathing, eye pain, and skin redness and irritation. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Cut-off Levels

Chemical Name	Reproductive Toxicity	Carcinogenicity	Mutagenicity	Other Hazard Classes
Water	NA	NA	NA	NA
Potassium acetate	NA	NA	NA	NA
Phosphoric acid	NA	NA	NA	NA
Purple Pigment	NA	NA	NA	NA

Section 4. FIRST AID MEASURES

Eye Exposure: May cause irritation. Irrigate eyes with water and

repeat until pain free. Seek medical attention if

irritation persists.

Skin Exposure: May cause skin irritation. In case of contact, wash

with plenty of soap and water. Seek medical attention

if irritation persists.

Inhalation: May cause irritation, along with coughing.

respiratory irritation or distress occurs, remove victim

to fresh air. Seek medical attention if irritation

persists.

Ingestion: Overdose symptoms may include gastrointestinal

> complaints or change in urine output. If victim is conscious and alert, rinse out mouth and give 1-2 glasses of water or milk to drink. Do not induce vomiting. Consult medical service if feel unwell. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower

than waist.

Medical conditions possibly aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin

disease.

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Non-combustible. Use extinguishing media suitable

for surrounding conditions.

Hazardous Combustion Products:

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive. Sensitivity to Static Discharge: Not sensitive.

Unusual fire/explosion hazards:

Protective Equipment and

Precautions for Firefighters:

As in any fire, wear self-contained breathing

NA

apparatus pressure-demand. NIOSH (approved or

Carbon monoxide, carbon dioxide, and metal oxides.

equivalent) and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing.

During minor spill clean-up: Minimum - chemical Personal Protective Equipment:

goggles, nitrile gloves, and an air purifying respirator.

Large spills (one container or more) should be **Emergency Procedures:**

addressed by hazardous materials technicians who

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follow a specific emergency response plan and who

are trained in the appropriate use of PPE.

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Use sorbent socks for containment.

Methods for Clean Up: Clean up released material using sorbent materials.

Bag and drum for disposal; properly label containers;

dispose as required by local, state, and federal

regulations. Decontaminate with detergent and water.

Prevent material from entering waterways.

If product is contaminated, use PPE and containment

appropriate to the nature of the most toxic

chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Environmental Precautions:

Other:

Personal Precautions: Use appropriate PPE when handling or maintaining

equipment, and wash thoroughly after handling (see

Section 8).

Conditions for Safe Storage/Handling: Keep product in original container or extinguisher in a

cool area. Use in well ventilated area. Prevent falling. Do not allow near heat sources. Contents may be under pressure – inspect container consistent with

product labeling to ensure container integrity.

Incompatible Products:

This material is incompatible with strong acids and

strong oxidizing agents. In contact with strong acids,

potassium acetate may react vigorously and

decompose to produce acetic acid fumes. Potassium

acetate may be mildly corrosive to many metals. Carbon dioxide, carbon monoxide, metal oxides.

Hazardous Decomposition Products: Carbon dioxid

Hazardous Polymerization: Will not occur

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Water	NR	NR	NR	NR
Potassium acetate	NR	NR	NR	NR
Phosphoric acid	NA	NA	NA	NA
Purple Pigment	NA	NA	NA	NA

^{*}German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. NA= Not applicable because concentration is less than one percent of the mixture and is expected to not be relevant. All values are 8 hour time weighted average concentrations.

Engineering Controls:

Showers Eyewash stations Ventilation systems

Personal Protective Equipment - PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.









Eye/Face Protection:

Skin and Body Protection: Respiratory Protection:

Hygiene Measures:

Chemical goggles when avoidance of splashes, mist, and gases is necessary.

Wear nitrile or similar gloves/coveralls, if necessary. If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use N100 mask for limited exposure; use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light purple liquid

Molecular Weight:
Odor:
No information available

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Initial Boiling Point ^oC: No information available

Physical State: Liquid

pH: Approximately 8.65 in solution at 20 C

Flash Point ^oC: None Auto-ignition Temperature ^oC: None

Boiling Point/Range ^oC:

Mo information available

Melting Point/Range ^oC:

No information available

Flammability: Not flammable

Flammability Limits in Air ^oC: Upper – Not Flammable; Lower-Not Flammable

Explosive Properties:

Oxidizing Properties:

None

None

Volatile Component (%vol)

Evaporation Rate:

Vapor Density:

Vapor Pressure:

Not Applicable

Not Applicable

Not Applicable

Specific gravity: Approximately 1.27 at 20 C

Solubility: Soluble in water

Partition Coefficient: No Information Available

Viscosity: Not Applicable

Section 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling

conditions.

Reactivity: Not reactive.

Possibility of Hazardous Reactions: Under normal conditions of storage and handling,

hazardous reactions will not occur.

Incompatibles: This material is incompatible with strong acids and

strong oxidizing agents. In contact with strong acids,

potassium acetate may react vigorously and

decompose to produce acetic acid fumes. Potassium

acetate may be mildly corrosive to many metals.

Conditions to Avoid: Storage or handling near incompatibles.

Hazardous Decomposition Products: Heat of fire may release carbon monoxide, carbon

dioxide, and oxides of potassium.

Possibility of Hazardous Reactions: None

Hazardous Polymerization Does not occur.

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin, and eye contact.

Symptoms:

Immediate

Inhalation: Irritation, coughing. Eyes: Mild irritation.

Skin: Mild irritation.

Delayed: Symptoms appear to be relatively immediate

Acute Toxicity: Relatively non-toxic.

Chronic Toxicity:

Short-term Exposure: None known. Long-term Exposure: None known.

Acute Toxicity Values - Health

Chemical Name		LD50	
	Oral	Dermal	
	NIA	A L A	NIA
Water	NA NA	NA	NA
Potassium acetate	3250 mg/kg (rat)	NA	NA
Phosphoric acid	NA	NA	NA
Purple Pigment	NA	NA	NA

Reproductive Toxicity: This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST):

No information indicating that this product has any

known single exposure or repeated exposure effects.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Water	None	None	None	None	None	None
Potassium acetate	None	None	None	None	None	None
Phosphoric acid	NA	NA	NA	NA	NA	NA
Purple Pigment	NA	NA	NA	NA	NA	NA

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: A weak environmental toxin. Specific negative impacts are

unknown.

Persistence/Degradability: Soluble in water; moderate degradation in soil. Rapid

photolytic degradation in air.

Probability of rapid biodegradation: C2H3KO2 Est: 0.792 (Rapid)
Anaerobic biodegradation probability: C2H3KO2 Est: - 0.943 (Rapid)

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Bioaccummulation potential: Low.

Bioconcentration factor: C2H3KO2 Est: 3.16 L/kg (wet weight)

Bioaccummulation: Extent unknown but unlikely.

Mobility in soil: Slow evaporation rate; water soluble, may leach to

groundwater

NOTE: C2H3KO2 - Potassium Acetate

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Water	N/A	N/A
Potassium acetate		N/A
Chem phosphoric acid	NA	NA
Purple Pigment	NA	NA

Aquatic Toxicity Values – Environment – Calculated Estimates

	Chemical Name	Acute (LC50)	EC50
ı	Water	N/A	N/A
	Potassium acetate	N/A	4403 mg/L Gr. Algae 96 hr
	Chem Phosphoric acid	NA	NA
	Purple Pigment	NA	NA

N/A - Not available. NA - Not applicable

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling Use appropriate PPE when handling, and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging Dispose in accordance with federal, state, and local

regulations.

NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number:
UN Proper Shipping Name:
NA
Transport Hazard Class:
NA
Packing Group:
NA
Marine Pollutant?:
NO

IATA Not regulated DOT Not regulated

NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations. Special Precautions for Shipping:

If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class is 2.2 (Non-Flammable gas) when shipped.

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title VII Restrictions: No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

	Applicable					
Chem phosphoric acid	Not	Not Applicable				
	Applicable					
Purple Pigment	Not	Not Applicable				
	Applicable					

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Phosphoric acid	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Purple Pigment	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification: No known national or regional regulations applicable to this product.

U.S. Federal Regulatory Information:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard* Yes
Reactive Hazard No

Clean Water/Clean Air Acts:

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) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

^{* -} Only applicable if material is in a pressurized extinguisher.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None

California – Permissible Exposure Limits for Chemical Contaminants: None

Florida – Substance List: None
Illinois – Toxic Substance List: None
Kansas – Section 302/303 List: None
Massachusetts – Substance List: None

Minnesota – List of Hazardous Substances: None

Missouri – Employer Information/Toxic Substance List: None **New Jersey** – Right to Know Hazardous Substance List: None

North Dakota – List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania – Hazardous Substance List: None **Rhode Island** – Hazardous Substance List: None

Texas – Hazardous Substance List: None

West Virginia – Hazardous Substance List: None **Wisconsin** – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Other:

Mexico – Grade No component listed Canada – WHMIS Hazard Class No component listed

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date 17-June-2012
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Revision Notes None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.