

Quality is Behind the Diamond

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: 240

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

human or animal drug use

Manufacturer: AMEREX CORPORATION Internet Address: www.amerex-fire.com

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

Trussville, AL 35173-0081

Company Telephone: (205) 655-3271

E-mail Address: customer.service@amerex-fire.com
Emergency Contacts: Chemtrec 1(800) 424-9300 or

(703) 527–3887

Revised: March 7, 2019

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Health	Environmental	Physical
Acute Toxicity: Category 4	None	Warning
Skin Corrosion/Irritation: Category 2	None	Warning
Skin Sensitization: NO	None	None
Eye: Category 2A	None	Warning
STOT - Category 3	None	Warning
Carcinogen: Category None	None	None



GHS – Label Symbol(s):

GHS – Signal Word(s): Warning

Other Hazards Not Resulting in Classification: None

GHS - Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	None	
Health	H302	Harmful if swallowed.
	315	Causes skin irritation.
	319	Causes serious eye irritation.
	335	May cause respiratory irritation.
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
	264	Wash exposed skin thoroughly after handling.
	270	Do not eat, drink or smoke when using this product.
	280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P312	Call a POISON CENTER or doctor if you feel unwell.
	321	Specific treatment (see Section 4. First Aid Measures)
	330	Rinse mouth
	362	Take off contaminated clothing.
	301+312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
	302+352	IF ON SKIN: Wash with plenty of water.
	304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if
		present and easy to do – continue rinsing.
	332+313	If skin irritation occurs: Get medical advice/attention.
	337+313	If eye irritation persists get medical advice/attention.
	342+311	If experiencing respiratory symptoms: Call a doctor.
Storage	P403+233	Store in a well ventilated place. Keep container tightly closed.
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should
		be disposed of as unused product.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Water	NA	NA	7732-18-5	40-60
Potassium acetate	204-822-2	NA	127-08-2	40-60
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, and an irritant to the 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.

Section 4. FIRST AID MEASURES

Eye Exposure: Causes eye irritation. Irrigate eyes with water and

repeat until pain free. Seek medical attention if

irritation persists.

Skin Exposure: Causes 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. If

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: Carbon monoxide, carbon dioxide, and metal oxides.

Decomposes with heat to create acetic acid fumes.

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

apparatus pressure-demand. NIOSH (approved or

equivalent) and full protective gear.

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NA

Section 6. ACCIDENTAL RELEASE MEASURES

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

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

goggles, nitrile gloves, and an air purifying respirator.

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

addressed by hazardous materials technicians who 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

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 for extinguisher rust

periodically 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.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, metal oxides.

Hazardous Polymerization:

Environmental Precautions:

Other:

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

<u>Personal Protective Equipment – PPE Code E:</u>

The need for respiratory protection is not probable during short-term exposure. During production, the manufacturer should use judgement concerning the need for PPE.









Eye/Face Protection: Chemical goggles when avoidance of splashes, mist,

and gases is necessary.

Skin and Body Protection: Wear nitrile or similar gloves, and coveralls or a long

sleeve shirt, if necessary.

Respiratory Protection: 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 local regulations.

The need for respiratory protection is not likely for

short-term use in well ventilated areas.

Hygiene Measures: Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-

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mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light purple liquid Molecular Weight: C2H3KO2- 98.14

Odor:
Odor threshold:
No information available

Physical State: Liquid

pH: Approximately 8.65 in solution at 20 C

Flash Point ^oC: C2H3KO2- >250

Auto-ignition Temperature °C: None

Boiling Point/Range ^oC: No information available

Melting Point/Range ^oC: C2H3KO2- 292 Flammability: Not flammable

Flammability/Explosive Limits in Air ^oC: Upper – None; Lower-None

Explosive Properties: None Oxidizing Properties: None

Volatile Component (%vol)

Evaporation Rate:

Vapor Density:

No information available

No information available

No information available

Vapor Pressure: C2H3KO2- <0.0000001 hPa at 25°C

Specific gravity: Approximately 1.27 at 20 °C

Solubility: Soluble in water

Partition Coefficient:

Viscosity:

No information available

No information available

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

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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: Irritation. Skin: 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	
Water	NA	NA	NA NA
Potassium acetate	3250 mg/kg (rat)	NA	0.117 mg/m3 -90 day continuous (lowest published)
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	Cat 3 (Resp irr)	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)

Bioaccummulation potential: Low.

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

Bioaccummulation factor: C2H3KO2 Est: 0.929 L/kg (wet weight)

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

groundwater

Log Koc: C2H3KO2 Est: -1.902 (Kow Method)

Log Koa: Not Available

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	6800 mg/l Oncorhynchus mykiss 96 hr >992 mg/l Danio rerion96 hr	N/A
Chem phosphoric acid	NA	NA
Purple Pigment	NA	NA

Aquatic Toxicity Values – Environment – Calculated Estimates

Chemical Name	Acute (LC50)	EC50
Water	N/A	N/A
Potassium acetate	N/A	4403 mg/L Gr. Algae 96 hr 7170 mg/lDaphnia 24 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, provincial,

and local regulations.

Contaminated Packaging Dispose in accordance with federal, state, provincial,

and local regulations.

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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. This transportation information covers the Chem CH 506 Antifreeze fire extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems.

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/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

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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 XVII 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 Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Chem phosphoric acid	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Purple Pigment	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not 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:

R Phrases: 21 Harmful in contact with skin.

Toxic if swallowed.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

S Phrases: 24/25 Avoid contact with skin and eyes

In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Wear suitable protective clothing.

In case of accident or if you feel unwell seek medical advice

immediately (show the label where possible

36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

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
Reactive Hazard No

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)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

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

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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. No modifications of this SDS are authorized by AMEREX Corporation. Questions or comments should be directed to AMEREX Corporation (See Section 1).

Issuing Date 17-June-2012

Revision Date 7-March-2019; Revision D

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.