

SAFETY DATA SHEET

Jan 2015

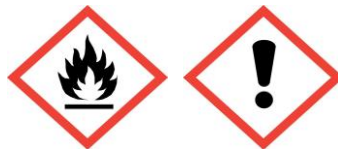
1. Identification

Product identifier	Tac-Away
Other means of identification	
Product code	Not available.
Recommended use	Not available.
Recommended restrictions	No restrictions on use known.
Chemical family	Mixture.
Manufacturer	
Company name	Safetec of America, Inc.
Address	887 Kensington Avenue Buffalo, NY, USA 14215
Telephone	(716) 895 1822
Website	www.safetec.com
E-Mail	
Supplier information	
Company name	Safetec of America, Inc.
Address	887 Kensington Avenue Buffalo, NY, USA 14215
Telephone	(716) 895 1822
Emergency phone number	1-800-255-3924

2. Hazard(s) Identification

Physical hazards	Flammable liquids Category 2
Health hazards	Serious eye damage/eye irritation Category 2A Specific target organ toxicity, single exposure Category 3 narcotic effects
Environmental hazards	This mixture does not meet the classification criteria according to OSHA HazCom 2012.
OSHA defined hazards	This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal Word	DANGER!
Hazard statement(s)	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness and dizziness.

Precautionary statement(s)

Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
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Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing mist or vapor. Wash hands thoroughly after handling.

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Response	<p>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.</p> <p>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p> <p>In case of fire: Use appropriate media for extinction.</p>
Storage	<p>Store in a well-ventilated place.</p> <p>Keep container tightly closed.</p> <p>Keep cool.</p>
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise Classified (HNOC)	None known.
Supplemental Information	None.

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Ethanol	Ethyl alcohol	64-17-5	4.00
Isopropanol	Isopropyl alcohol	67-63-0	72.00

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.
Skin contact	Wash off with warm water and soap. Get medical attention if symptoms occur.
Eye contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without advice from poison control center. Get medical attention.
Most important symptoms and effects, both acute and delayed	Causes serious eye irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause drowsiness or dizziness.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. This product is a CNS depressant.

General Information	Causes serious eye irritation. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. May cause drowsiness and dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
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5. Fire-fighting measures

Suitable extinguishing media Water. Water Spray or Fog. Dry chemicals. Foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media **equipment/instructions**

Specific hazards arising from the chemical **Specific methods**

Special protective equipment and precautions for fire-fighters

Fire-fighting

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Do not use water jet, as this may spread burning material.

The product is combustible, and heating may generate vapors

which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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General fire hazards Highly flammable liquid and vapor.

Hazardous combustion products Carbon oxides and other irritating fumes and smoke.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

7. Handling and storage

Precautions for safe handling Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Do not store around flammable or combustible materials. Store in tightly closed original container in a well-ventilated place. Keep cool. Store locked up.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. OSHA Exposure Limits (29 CFR 1910)

	Type	Value
Ethanol (CAS 64-17-5)	TWA	1000 ppm
Isopropanol (CAS 67-63-0)	TWA	400 ppm (980 mg/m ³)

US. ACGIH Threshold Limit Values

	Type	Value
Ethanol (CAS 64-17-5)		1000ppm
Isopropanol (CAS 67-63-0)	TWA	400 ppm 200 ppm

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US. NIOSH: Pocket Guide to Chemical Hazards

	Type	Value
Isopropanol	STEL	500 ppm ; 1225 mg/m ³
(CAS 67-63-0)	TWA	400 ppm ; 980 mg/m ³

Biological limit values

Exposure guidelines

There is no established exposure limits for this product. The above exposure limits are provided for safety reasons.

Appropriate engineering controls Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves recommended.

Other Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or manufacturer for specific information.

Thermal hazards

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid.

Color Colorless.

Odor Alcohol odour.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 180°F (82.26°C)

Flash point 63°F (17.2°C)
Closed cup.

Evaporation rate 2.88

Flammability (solid, gas) Not applicable.
Lower flammability/explosive limit

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Upper flammability/explosive limit	2.0%
Vapour pressure	12.7%
	Not available.

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Vapour density	Not available.
Relative density	0.7864 @ 68°F (20 °C) (water = 1)
Solubility(ies)	
Other solubility(ies)	No information available.
Solubility (water)	soluble
Partition coefficient (n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	No information available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive
Oxidizing properties	None known.
Specific gravity	0.7864 @ 68°F (20 °C)
Critical temperature	
VOC	100%
Volatilities %	No information available.
Other physical/chemical data	None.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, sparks and open flame. High temperatures.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Routes of entry inhalation	YES
Routes of entry skin & eye	YES
Routes of entry Ingestion	YES
Routes of exposure skin absorption	Information on toxicological effects
Most important symptoms/effects, acute and delayed	

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NO

respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

May cause irritation to the nose, throat and upper

Causes serious eye irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause drowsiness or dizziness.

Acute toxicity

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components

Species

Test Results

Ethanol

Acute

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<i>Dermal</i>		
LD50	Rabbit	>15800mg/kg
<i>inhalation</i>		
LC50	Rat	>61mg/L (vapour)
<i>Oral</i>		
LD50	Rat	7060 mg/kg
Isopropanol		
Acute		
<i>Dermal</i>		
LD50	Rabbit	12 890 mg/kg
<i>inhalation</i>		
LC50	Rat	17 000 ppm (41.8 mg/L) (vapour)
<i>Oral</i>		
LD50	Rat	4720 mg/kg
Skin Corrosion/Irritation	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
Serious eye damage/Irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	Not expected to be a skin or respiratory sensitizer.	
Germ cell mutagenicity	Contains ethanol. Ethanol may cause mutations to both reproductive (germ) cells and non-reproductive (somatic) cells, based on animal data. However, no firm conclusions can be drawn from these studies and how they relate to occupational exposure.	
Carcinogenicity	Note that this product contains ethanol, a confirmed animal carcinogen (A3) by the ACGIH and human carcinogen (Group 1) by the IARC; however, this is only applicable when the chemical is present in alcoholic beverages.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Ethanol(CAS 64-17-5)	Group 1 (Carcinogenic to Humans)	
Isopropanol(CAS 67-63-0)	Group 3 (Not Classifiable)	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Ethanol(CAS 64-17-5)	Present	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	Not classified as a specific target organ toxicity -repeated exposure.	
Chronic effects	Prolonged or repeated contact may cause drying, cracking and defatting of the skin.	
Aspiration toxicity	Not expected to be an aspiration hazard.	
Further information	See below for individual ingredient acute toxicity data.	
12. Ecological information		
Ecotoxicity	The product is not classified as environmentally hazardous.	

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Ecotoxicity data:				
Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Ethanol	64-17-5	>100mg/L (Fathead minnow)	N/Av	N/Ap
Isopropanol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Ethanol	64-17-5	5012mg/L (Water flea)	N/Av	N/Ap
Isopropanol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethanol	64-17-5	1000mg/L (Green algae)	N/Av	N/Ap
Isopropanol	67-63-0	N/Av	N/Av	None.

Persistence and degradability

Not available.

Bioaccumulation potential

The log Kow for Ethanol is -0.31, and it is not expected to bioaccumulate.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ethanol (CAS 64-17-5)	-0.32	
Isopropanol (CAS 67-63-0)	0.05	

Mobility in soil

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal consideration

Disposal instructions

Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Local disposal regulations

Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state or federal environmental agency for specific rules.

Hazardous waste code

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

Waste from residues / unused products

Contaminated packaging

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14. Transport information

49CFR/DOT



UN Number UN1219
UN proper shipping name ISOPROPANOL; or
 ISOPROPYL ALCOHOL
Transport hazard class(es)
Class 3
Subsidiary risk
Packaging group II
Special precautions for user

ICAO/IATA



UN Number UN1219
UN proper shipping name Isopropanol
Transport hazard class(es)
Class 3
Subsidiary risk none
Packaging group II
Environmental hazards
ERG Code
Special precautions for user Refer to ICAO/IATA Packing Instruction Y305, 305, or 307.
Other information
Passenger and cargo aircraft Forbidden
Cargo aircraft only Forbidden

IMDG



UN Number UN1219
UN proper shipping name ISOPROPANOL; or
 ISOPROPYL ALCOHOL
Transport hazard class(es)
Class 3
Subsidiary risk none
Packaging group II
Environmental hazards
Marine pollutant
EmS F-E
Special precautions for user Packing Code: P001
 Packing Special Provisions: -
 IBC Code: IBC02
 IBC Special Provision: -
 IMO Tank Instructions: T1
 UN Tank Instructions: T4
 Tank Special Provisions: TP1

General information

Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This information is not available.

15. Regulatory information

US Federal Information:

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Fire Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Ethanol	64-17-5	Yes	N/Ap	N/Av	No	N/Ap
Isopropanol	67-63-0	Yes	None.	None.	Yes	1%

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard -	Yes
	Delayed Hazard -	NO
	Fire Hazard -	Yes
	Pressure Hazard -	NO
	Reactivity Hazard -	NO

US state regulations

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethanol	64-17-5	Yes	r. Developmental T	Yes	Yes	Yes	Yes	Yes	Yes
Isopropanol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Inventories

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ethanol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144
Isopropanol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180

16. Other information, including date of preparation or last revision

Material name: Tac-Away

SDS US

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Issue date

04/17/2015

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Version #

1

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 DOT: Department of Transportation
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 MSHA: Mine Safety and Health Administration
 N/Ap: Not Applicable
 N/Av: Not Available
 NIOSH: National Institute of Occupational Safety and Health
 NJ: New Jersey
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PA: Pennsylvania
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RI: Rhode Island
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TCC: Tagliabue Closed Cup
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 TSCA: Toxic Substance Control Act
 WHMIS: Workplace Hazardous Materials Identification System

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

HMIS Rating

: *- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 2 *Flammability:* 3 *Reactivity:* 0

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

: *Health:* 2 *Flammability:* 3 *Instability:* 0 *Special Hazards:* None

Disclaimer

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Bibliography

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2. International Agency for Research on Cancer Monographs, searched
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheet from manufacturer.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.