

# Safety Data Sheet

 Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Revision date: 06/25/2015
 Supersedes: 10/01/2014
 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

Product name	: TANNERGAS®
Product form	: Mixture
Product code	: UN1993
Other means of identification	: FREEZE-BAN, METHANOL SOLUTION

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

Use of the substance/mixture : Anti-freeze for compressed air lines. Not for human or animal consumption.

## 1.3. Details of the supplier of the safety data sheet

Tanner Systems, Inc.

625 - 19th Avenue N.E P.O. Box 488 St. Joseph, MN 56374, U.S.A. Telephone: FACTORY, 800-461-6454 Email: info@tannersystems.com Website: www.tannersystems.com

#### 1.4. Emergency telephone number

Emergency number

: CHEMTREC, 800-424-9300 (24 Hours)

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

#### **GHS-US** classification

H225
H301
H311
H331
319
H370

#### 2.2. Label elements

## **GHS-US** labelling

•		
Hazard pictograms (GHS-US)	:	

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)



## : Danger

: H225 - Highly flammable liquid and vapour

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H319 – Causes Serious Eye Irritation

- H370 Causes damage to organs
- : P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, hot surfaces, open flames, sparks. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, lighting, ventilating equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe fumes, mist, spray, vapours
- P261 Avoid breathing vapours, fume
- P264 Wash hands, forearms and face thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear eye protection, protective gloves, protective clothing
- P301+P310 IF SWALLOWED: Immediately call a doctor, a poison center
- P302+P352 If on skin: Wash with plenty of water

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P307+P311 - If exposed: Call a poison center/doctor
P308+P313 - If exposed or concerned: Get medical advice/attention
P311 - Call a doctor, a poison center
P312 - Call a doctor, a poison center if you feel unwell
P321 - Specific treatment (see first aid instructions on this label)
P330 - Rinse mouth
P361 - Take off immediately all contaminated clothing
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use dry extinguishing powder, carbon dioxide (CO2) to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or
collection site except for empty clean containers which can be disposed of as non-hazardous
waste

#### 2.3. Other hazards

Other hazards not contributing to the classification 2.4.

: None under normal conditions.

# Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Methyl alcohol	(CAS No) 67-56-1	60 - 100
2-Amino-2-methyl-1-propanol	(CAS No) 124-68-5	0.5 - 1.5

# SECTION 4: First aid measures

SECTION 4: First aid measures		
4.1. Description of first aid measure	'S	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.	
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. Get medical attention immediately.	
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.	
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/injuries	: Causes damage to organs. Toxic in contact with skin. Toxic if swallowed. Toxic if inhaled.	
Symptoms/injuries after inhalation	: Toxic if inhaled.	
Symptoms/injuries after skin contact	: Toxic in contact with skin.	
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.	
Symptoms/injuries after ingestion	: Toxic if swallowed.	
Chronic symptoms	: Causes damage to organs.	
4.2 Indication of any immediate me	diaglettention and encoded tractment needed	

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Dry chemical. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Highly flammable liquid and vapour. Vapours are heavier than air and may spread along floors. Vapours may travel long distances along ground before igniting/flashing back to vapour source.	
Explosion hazard	: Under fire conditions closed containers may rupture or explode.	
Reactivity	: Product may react with extinguishing media to produce toxic vapors or gases.	

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTI	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
General	measures	:	Evacuate area. Ventilate area. Keep upwind. Stop leak. No flames, no sparks. Eliminate all sources of ignition. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1.	For non-emergency personnel		
Protectiv	e equipment	:	Wear Protective equipment as described in Section 8.
Emerger	ncy procedures	:	Evacuate unnecessary personnel.
6.1.2.	For emergency responders		
Protectiv	e equipment	:	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Notify	/ at	uthorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3.	Methods and material for containme	ent	and cleaning up
For cont	ainment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Prevent entry to sewers and public waters.
Methods	for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Exclude sources of ignition and ventilate the area. Waste from this product may be hazardous as defined under RCRA (40 CFR 261).
6.4.	Reference to other sections		
No addit	ional information available		
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precauti	ons for safe handling	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours. Use only in well-ventilated areas. Ensure proper electrical grounding procedures are in place. When opening drum give bung no more than one (1) turn and stop. Allow pressure to vent before proceeding.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage of	conditions
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 Keep container closed when not in use. Keep away from ignition sources. Store in a dry, cool and well-ventilated place designed for storage of flammable liquids. Use only D.O.T. approved

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Methyl alcohol (67-56-1)	
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	250 ppm
OSHA PEL (TWA) (mg/m³)	260 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	200 ppm
OSHA PEL (STEL) (mg/m <sup>3</sup> )	325 mg/m <sup>3</sup>
OSHA PEL (STEL) (ppm)	250 ppm
2-Amino-2-methyl-1-propanol (124-68-5)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

containers.

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# 8.2. Exposure controls

o.z. Exposure controis	
Appropriate engineering controls	Provide ventilation designed for combustible atmospheres. Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	: Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.
Hand protection	<ul> <li>Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.</li> </ul>
Eye protection	: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.
Skin and body protection	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. If there is a risk of liquid being splashed: Wear protective rubber clothing with splash guard. Impervious footwear must be worn.
Respiratory protection	: Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

# **SECTION 9: Physical and chemical properties**

9.1.       Information on basic physical state       2         Physical state       2       Liquid         Color       3       Paley ellow.         Odor       5       Silgh al cohol.         Odor Threshold       4       No data available         pH       6       No data available         Relative evaporation rate (butylacette=1)       2       1         Melting point       6       9.78 °C (-144 °F)         Boling point       6       4.50 °C (144 °F)         Pale point       7       No data available         Freezing point       6       4.50 °C (144 °F)         Boling point       6       4.50 °C (144 °F)         Auto apuitable       6       No data available         Precomposition temperature       1       No data available         Decomposition temperature       1       No data available         Nator apuitable       1       No data available         Query pressure       1       No data available         Solubility       1       No data available         Solubility       1       No data available         Query pressure       1       No data available         Solubility       No data available       No	SECTION 9. Physical and chemical	properties	
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9.2. Other information	Explosive limits	: No data available	
	9.2. Other information		

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Product may react with extinguishing media to produce toxic vapors or gases.

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame. Ignition sources.

## 10.5. Incompatible materials

Oxidizing agents. Acids. Bases. May be corrosive to lead and aluminum.

## 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Formaldehyde.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

Methyl alcohol (67-56-1)		
LD50 oral rat	5628 mg/kg	
LD50 dermal rabbit	15800 mg/kg	
LC50 inhalation rat (mg/l)	83.2 mg/l/4h	
LC50 inhalation rat (ppm)	64000 ppm/4h	
ATE CLP (oral)	100.000 mg/kg bodyweight	
ATE CLP (dermal)	300.000 mg/kg bodyweight	
ATE CLP (gases)	700.000 ppmv/4h	
ATE CLP (vapours)	3.000 mg/l/4h	
ATE CLP (dust,mist)	0.500 mg/l/4h	
2-Amino-2-methyl-1-propanol (124-68-5)		
LD50 oral rat	2900 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not Classified	
Specific target organ toxicity (single exposure)	: Causes damage to organs.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: Toxic if inhaled.	
Symptoms/injuries after skin contact	: Toxic in contact with skin.	
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.	
Symptoms/injuries after ingestion	: Toxic if swallowed.	
Chronic symptoms	: Causes damage to organs.	

# **SECTION 12: Ecological information**

12.1. Toxicity Ecology - general

: No information available.

2-Amino-2-methyl-1-propanol (124-68-5)	
LC50 fishes 1	190 mg/l 96 hr Lepomis macrochirus
EC50 Daphnia 1	193 mg/l 48 hr Daphnia magna
ErC50 (algae)	520 mg/l 72 hr Desmodesmus subspicatus

# 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

#### No additional information available

06/25/2015

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Mobility in soil 12.4.

No additional information available

#### 12.5. Other adverse effects

No additional information available

<b></b>	
13.1. Waste treatment methods	
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Refer to current EPA regulations. Do not allow the product to be released into the environment.
SECTION 14: Transport information	
Ground (US DOT)	: UN1993 Flammable liquids, n.o.s., 3, II
Water (IMDG)	: UN1993 Flammable liquids, n.o.s., 3, II
Air (IATA)	: UN1993 Flammable liquids, n.o.s., 3, II
14.3 Additional Information Other information	: No supplementary information available.
<b>Overland Transport</b> No additional information available	
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Air transport	
IATA Quantity Limitations Passenger and Cargo aircraft	: 1L (Ltd Qty); 5L
Packaging Instructions	: Y341 (Ltd Qty); 353
IATA Quantity Limitations Cargo aircraft only	: 60L
Packaging Instructions	: 364
SECTION 15: Regulatory information	
15.1. US Federal regulations	
TANNERGAS®	

Methyl alcohol (67-56-1)	
Listed on United States SARA Section 313	
CERCLA Reportable Quantity	5000 lb

# Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 15.2. International regulations

#### CANADA

# TANNERGAS®

All chemical substances in this product are listed on the Canadian DSL (Domestic Substances List)

### 15.3. US State regulations

## **California Proposition 65**

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause reproductive toxicity

Methyl alcohol (67-56-	)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	
Methyl alcohol (67-56-1)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List				
2-Amino-2-methyl-1-propanol (124-68-5)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List				

U.S. - Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

Indication of changes	: Revision 1.0: New SDS Created.
Revision date	: 04/16/2015
Other information	: Author: NMR.
NFPA health hazard	2 – May be harmful if inhaled or absorbed
NFPA fire hazard	: 3 - Flammable liquid flash point below 100°F
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard – Temporary or minor injury may occur
	*Chronic Hazard – Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard
Personal Protection	

The above information is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes. This document is intended as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Tanner Systems, Inc makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with the respect to the information set forth herein or the product to which the information refers. Accordingly, Tanner Systems, Inc will not be responsible for damages resulting from use of or reliance upon this information.