

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/01/2019

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

Precautionary statements (GHS-US) continued	 P271 - Use only outdoors or in a well-ventilated area. P280 - Wear personal protective equipment as required. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. 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 P301+P310 - If swallowed: Immediately call doctor/physician or poison center. Rinse Mouth P312 - Call doctor/physician or poison center if you feel unwell P361+P364 - Take off immediately all contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use Carbon dioxide, Dry powder, foam, sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations
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2.3. **Other hazards**

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

Substances 3.1.

Not applicable

3.2. **Mixtures**

Name	Product identifier	% by wt	GHS-US classification
water	(CAS-No.) 7732-18-5	>= 67	Not classified
methanol	(CAS-No.) 67-56-1	<= 33	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse immediately with plenty of water (for at least 15 minutes). If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth. Obtain emergency medical attention.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after inhalation	High concentrations may cause central nervous system characterized by severe headaches, dizziness, nausea and confusion. May cause irritation of the nose and throat.
Symptoms/effects after skin contact	Prolonged exposure to skin may cause skin irritation experienced as burning, dryness, cracking and redness.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	May cause nausea, abdominal pain, headache, shortness of breath, visual impairment and blindness. Severe poisoning can lead to coma and death.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin, Dry skin, Skin rash/inflammation, Headache, Feeling of weakness, Disturbed tactile sensibility, Visual disturbances, Sleeplessness, Gastrointestinal complaints, Cardiac and blood circulation effects.

Safety Data Sheet

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

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

Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. This product contains/consists of methanol which can cause intoxication and depression of the central nervous system.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: ABC powder. Foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream. May spread fire.
5.2. Special hazards arising from the subs	stance or mixture
Fire hazard	: Flammable liquid and vapor. Vapors are heavier than air and may travel along the ground or may be moved by ventilation.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
5.3. Special protective equipment and pre	ecautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

SECTION 6: Accidental release measures

: Do not enter fire area without proper protective equipment, including respiratory protection.

6.1. Personal precautions, protective	Personal precautions, protective equipment and emergency procedures		
General measures	: Do not breathe mist, spray, vapors. In case of inadequate ventilation wear respiratory protection. Remove ignition sources. Use special care to avoid static electric charges.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel. Keep upwind. Mark the danger area.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. No	otify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for contain	ment and cleaning up		
For containment	: Contain released product, pump into suitable containers. Dam up the liquid spill. Plug the leak, cut off the supply. Try to reduce evaporation. Take account of toxic/corrosive precipitation water. Dilute combustible/toxic gases/vapors with water spray.		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: In use, may form flammable vapor-air mixture.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includir	ng any incompatibilities
Technical measures	: Use explosion-proof ventilating, lighting, electrical equipment. Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, hot surfaces, open flames, sparks. Keep container closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty.
Incompatible products	: Keep away from strong acids, strong bases and oxidizing agents.
Incompatible materials	: Sources of ignition.
10/01/2019	EN (English) 3/9

Safety Data Sheet

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methanol (67-56-1)			
ACGIH	Local name	Methanol	
ACGIH	ACGIH TWA (ppm)	200 ppm (Skin)	
ACGIH	ACGIH STEL (ppm)	250 ppm (Skin)	
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea	
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m³ (Skin)	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm (Skin)	
water (7732-18-5)			
Not applicable			

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear appropriate mask



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Color	: Blue	
Odor	: alcohol	
Odor threshold	: No data available	
Relative evaporation rate (butylacetate=1)	: Greater than n-butyl acetate	
Freezing point	: -28.9 °C (-20 °F)	
Boiling point	: 81.7 °C (179 °F)	
Flash point	: 33.3 °C (92 °F)	
Auto-ignition temperature	: No data available	

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

Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 43 mm Hg @ 20 °C
Relative vapor density at 20 °C	: Heavier than air
	: 0.96 @ 20 °C
Specific Gravity	-
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: 6 - 36 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
VOC content	: < 33 %
SECTION 10: Stability and read	stivit,
10.1. Reactivity No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reac	tions
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
	ks, open flames and other ignition sources. No smoking.
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10.5 Incompatible materials	
10.5. Incompatible materials	as and avidizing agenta
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: High concentrations may cause central nervous system characterized by severe headaches, dizziness, nausea and confusion. May cause irritation of the nose and throat.
Symptoms/effects after skin contact	: Prolonged exposure to skin may cause skin irritation experienced as burning, dryness, cracking and redness.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: May cause nausea, abdominal pain, headache, shortness of breath, visual impairment and blindness. Severe poisoning can lead to coma and death.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin, Dry skin, Skin rash/inflammation, Headache, Feeling of weakness, Disturbed tactile sensibility, Visual disturbances, Sleeplessness, Gastrointestinal complaints, Cardiac and blood circulation effects.

SECTION 12: Ecological information

12.1. Toxicity	
methanol (67-56-1)	
LC50 fish 1	15,400.00 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	18,260.00 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	22,000.00 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)

Persistence and degradability 12.2.

methanol (67-56-1)				
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.			
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance			
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance			
ThOD	1.50 g O ₂ /g substance			

Bioaccumulative potential 12.3.

methanol (67-56-1)	
BCF fish 1	1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)
Log Pow	-0.77 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Mobility in soil 12.4.

methanol (67-56-1)			
Surface tension 0.02 N/m (20 °C)		0.02 N/m (20 °C)	
Log Koc 0.09 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		0.09 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil		Highly mobile in soil.	
12.5. Other a	dverse effects		

Effect on the ozone layer	
	•

: No known effect on the ozone layer

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	 Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Ecology - waste materials	: Avoid release to the environment.

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

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)	 UN1993 Flammable liquids, n.o.s., 3, III UN1993 Flammable liquids, n.o.s. 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 III - Minor Danger 3 - Flammable liquid
	rumane Liquid
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 128
Other information	: In inner packaging no more than 5.0 L: Proper Shipping Name: Limited Quantity of Class III Per 49 CFR Part 173.10 (PG III, inner packaging no more than 5.0L).
Transportation of Dangerous Goods	
Refer to current TDG Canada for further Cana	dian regulations

Transport by sea

In accordance with IMDG / IMO	
Transport document description (IMDG)	: UN 1992 Flammable Liquid, Toxic, n.o.s. (methanol), 3, III
UN-No. (IMDG)	: 1992
Proper Shipping Name (IMDG)	: Flammable Liquid, Toxic, n.o.s. (methanol)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: In Non-Bulk quantities with inner packaging no more than 5.0L: Proper Shipping Name: Dangerous Goods in Limited Class 3 (Windshield Wash Containing Methanol) Packages or pallets must be marked "Dangerous Goods in Limited Quantities of Class 3" Outer Package cannot weigh more than 30 kg.
Limited quantities (IMDG)	: 5 L
Air transport	
In accordance with IATA / ICAO	
Transport document description (IATA)	: UN 1992 Flammable Liquid, Toxic, n.o.s. (methanol), 3 (6.1), III
UN-No. (IATA)	: 1992
Proper Shipping Name (IATA)	: Flammable Liquid, Toxic, n.o.s. (methanol)
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
Subsidiary risks (IATA)	: 6.1 - Toxic substances
Instruction "passenger" - Limited quantities	: Y343 (Max qty. per package 2.0L) Special Provision A3

(ICAO)

Safety Data Sheet

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

SECTION 15: Regulatory information

15.1. US Federal regulations

NAPA Windshield Wash -20 °F				
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed			
SARA Section 302 Threshold Planning Quantity (TPQ) None			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting	33 % (Methanol CAS # 67-56-1)			
methanol (67-56-1)				
CERCLA RQ	5000 lb(s) (2270 kg)			
water (7732-18-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

15.2. International regulations

CANADA	
NAPA Windshield Wash -20 °F	
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

15.3. US State regulations

This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

methanol (67-56-1)					
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 significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		47000 μg/day (inhalation); 23,000 μg/day (oral)

methanol (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) List

SECTION 16: Other information

Revision date

: 10/01/2019

Full text of H-statements:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H370	Causes damage to organs

Safety Data Sheet

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

NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

SDS GHS US (GHS HazCom 2012) OWI

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