

WHMIS	TDG Road/Rail	Health Hazard *	1
		Fire Hazard	0
		Reactivity	0
		Personal Protection	B

This MSDS is provided as information only. The product is not WHMIS regulated. The product is regulated under the food and drug Act. DIN 02285290

1. Product and company identification

Product name	: 2005 PINE DISINFECTANT DETERGENT	Code	: 09-12205
Date of issue (yyyy/mm/dd)	: 2015-02-04.	Material uses	: Industrial applications: Disinfectant.
Supplier	: Wood Wyant A division of Sani-Marc Group 42, rue de l'Artisan Victoriaville, Québec G6P 7E3	Manufacturer	: Wood Wyant A division of Sani-Marc Group 42, rue de l'Artisan Victoriaville, Québec G6P 7E3

In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

2. Hazards identification

Potential hazards described in this section are not expected when manufacturer's direction for use and proper security measures are observed.

Physical state	: Liquid. [Transparent liquid. Odor : Pine]
Emergency overview	: WARNING! May be harmful if swallowed. Irritating to eyes, respiratory system and skin. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Inhalation	: Irritating to respiratory system.
Ingestion	: Harmful if swallowed.
Skin	: Irritating to skin.
Eyes	: Irritating to eyes.
See toxicological information (Section 11) for more details.	

3. Composition/information on ingredients

Name	CAS number	% (w/w)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	1 - 5
Oils, pine	8002-09-3	1 - 5
Undecan-1-ol, ethoxylated	34398-01-1	1 - 5
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 5
methanol	67-56-1	0 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact	: Check for and remove any contact lenses. Flush eyes with water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists or if symptoms develop.
Skin contact	: In case of contact, flush with water. Get medical attention if irritation develops.
Inhalation	: There are no specific inhalation hazard associated with this product when directions for use are followed. No specific measures required.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. Fire-fighting measures

Flammability of the product	: In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling	: Suggested personal protection equipment should be worn at all time when handling the product. Handle in accordance with manufacturer direction for uses. Avoid contact with eye or skin.
Storage	: Store product in a dry, cool ventilated area. Protect from freezing. Keep out of reach of children.

8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
methanol	US ACGIH 4/2014	200	262	-	250	328	-	-	-	-	[1]
	AB 4/2009	200	262	-	250	328	-	-	-	-	[1]
	BC 4/2014	200	-	-	250	-	-	-	-	-	[1]
	ON 1/2013	200	262	-	250	328	-	-	-	-	[1]
	QC 1/2014	200	262	-	250	328	-	-	-	-	[1]
[1]Absorbed through skin.											

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: No specific monitoring measures required.
Engineering measures	: General room ventilation is adequate for the use of the product. No additional ventilation is required.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Personal protection

Respiratory	: No specific respiratory protection required.
Hands	: It is suggested to wear chemical impervious gloves when handling or using the product.
Eyes	: It is suggested to wear safety glasses when handling or using the product.
Skin	: No specific measure required.

9. Physical and chemical properties

Physical state	: Liquid. [Transparent liquid.]	Molecular formula	: Not applicable.	Flammable limits	: Not available.
Color	: Green. [Dark]	Molecular weight	: Not applicable.	Burning rate	: Not applicable.
Odor	: Pine	Vapor pressure	: Not available.	Burning time	: Not applicable.
Relative density	: 0.99	Vapor density	: Not available.	Critical temperature	: Not available.
pH	: 11.5	Volatility	: Not available.	Auto-ignition temperature	: Not available.
Viscosity	: Not available.	Evaporation rate	: Not available.	Flash point	: [Product does not sustain combustion.]
Odor threshold	: Not available.	Ionicity (in water)	: Anionic.	Dispersibility properties	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.				
Melting/freezing point	: Not available.			Boiling/condensation point	: Not available.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials: acids
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

The symptoms, hazards and situations described in this section are not expected when manufacturer's direction for use, proper security measures and given professional exposure limits are correctly followed.

Potential chronic health effects

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: Not available.

Over-exposure signs/symptoms

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness

Medical conditions aggravated by over-exposure :

None known.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Oils, pine	LD50 Dermal	Rabbit	5000 mg/kg	-
	LD50 Oral	Rat	2.1 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Oral	Rat	2760 mg/kg	-
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 Oral	Rat	426 mg/kg	-
Alcohols, C12-15, ethoxylated	LD50 Oral	Rat	2 g/kg	-
	LD50 Oral	Rat	4150 mg/kg	-
Undecan-1-ol, ethoxylated	LD50 Dermal	Rabbit	<20000 mg/kg	-
	LD50 Oral	Rat	<5000 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oils, pine	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides methanol	Skin - Severe irritant	Rabbit	-	25 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Exposure	Species

12. Ecological information

Oils, pine	US EPA	Acute EC50 24.5 ppm Fresh water	48 hours	Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Fathead minnow - Pimephales promelas Algae - Green algae - Pseudokirchneriella subcapitata Crustaceans - Water flea - Ceriodaphnia dubia - Neonate Daphnia - Water flea - Daphnia magna - Neonate Fish - Fathead minnow - Pimephales promelas Algae - Green algae - Pseudokirchneriella subcapitata Daphnia - Water flea - Daphnia magna - Neonate Daphnia - Water flea - Daphnia magna Algae - Green algae - Ulva pertusa Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult Daphnia - Water flea - Daphnia magna - Neonate Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) Algae - Green algae - Ulva pertusa
	US EPA	Acute LC50 18.35 ppm Fresh water	96 hours	
Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	US EPA	Acute EC50 37 ppb Fresh water	48 hours	
	US EPA	Acute LC50 64 ppb Fresh water	96 hours	
	US EPA	Chronic NOEC 4.15 ppb Marine water	21 days	
	US EPA	Chronic NOEC 32.2 ppb	34 days	
Alcohols, C12-15, ethoxylated	-	Acute EC50 0.7 mg/l Fresh water	96 hours	
	-	Acute EC50 0.39 mg/l Fresh water	48 hours	
	-	Acute EC50 302 µg/l Fresh water	48 hours	
	-	Acute LC50 1400 µg/l Fresh water	96 hours	
	-	Chronic NOEC 1 mg/l Fresh water	96 hours	
	-	Chronic NOEC 83 µg/l Fresh water	21 days	
Undecan-1-ol, ethoxylated	-	Acute EC50 2100 to 2500 µg/l Fresh water	48 hours	
methanol	-	Acute EC50 16.912 mg/l Marine water	96 hours	
	-	Acute LC50 2500000 µg/l Marine water	48 hours	
	-	Acute LC50 3289 mg/l Fresh water	48 hours	
	-	Acute LC50 100 mg/l Fresh water	96 hours	
	-	Chronic NOEC 9.96 mg/l Marine water	96 hours	
	-			

Bioconcentration factor : Not available.

Toxicity of the products of biodegradation : The products of biodegradation are as toxic as the original product.

13. Disposal considerations

Waste disposal : Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-

PG* : Packing group

15. Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
Canadian lists	: CEPA Toxic substances: None of the components are listed. Canadian ARET: None of the components are listed. Canadian NPRI: None of the components are listed. Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.
Canada inventory	: At least one component is not listed.
Other certification	:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.


16. Other information on the product

Label requirements : CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Date of printing (YYYY-MM-DD) : 2015-02-04.
Date of issue (YYYY-MM-DD) : 2015-02-04.

Note: MSDS are valid for a 3 years period after the date of issue

MSDS prepared by:
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 Victoriaville, Québec
 G6P 7E3

 Indicates information that has changed from previously issued version.

[Notice to reader](#)

There are potential hazards to people and goods associated with the use of this product which are detailed in the present Material Safety Data Sheet (MSDS). To minimize potential hazards associated with this product it is of users responsibility to conform the directions for use and all other instructions provided in the Material Safety Data Sheet (MSDS) of this product. The manufacturer, distributors and suppliers of this product are exonerating themselves and consequently shall not be liable for any prejudice or damage of any kind, resulting from the use of this product which may not be in accordance with the directions for use or all the instructions provided in the present Material Safety Data Sheet (MSDS) or resulting from an unadvised use of the present product..

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)