Safety Data Sheet T&T



1. Identification	
Product identifier	T&T
Product code	AET&T510GDZ
Other means of identification	T&T Aerosol. This SDS sheet is not for the product in liquid format.
Recommended use of the chemical and restrictions on use	Tapping oil for hard-to-machine materials.
Manufacturer	AEROCHEM Inc. 5977 Trans Canada Highway Pointe-Claire, QC H9R 1C1 Canada Tel. 514-630-2800 General Information: 1-888-592-5837 Fax 514-630-2828 www.aerochem.ca
Emergency phone number	Quebec Poison Center: 1-800-463-5060 (toll free in QC) Ontario and Manitoba Poison Centres: 1-800-268-9017 or 419-813-5900 BC Drug and Poison Information Centre: 1-800-567-8911 (toll free in BC) or contact your local poison control centre in the state/province or territory where you live. INFOTRAC® 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.

2. Hazard identification

Summary

Flammable aerosol. Content under pressure, do not puncture, cut, heat or throw container into the flames. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/OSHA HCS 2012/GHS

Flammable aerosols (Category 1)



Other hazards which do not result in classification:

Acute hazard to the aquatic environment (Category 1). Long-term hazard to the aquatic environment (Category 1).

DANGER

H222: Extremely flammable aerosol

H229: Pressurized container: may burst if heated

H410: Very toxic to aquatic life with long lasting effects

P101: If medical advice is needed, have product container or label at hand.

P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P273: Avoid release to the environment.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to

do. Continue rinsing. P391: Collect spillage.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national

regulations.

3. Composition/information on ingredients					
Common name	CAS	Weight % content			
Alkanes (C14-17), chloro	61788-76-9	29 - 33 %			
Petroleum gases, liquefied, sweetened	68476-86-8	18 - 22 %			
Lard, oil	8016-28-2	14 - 18 %			
Residual oils (petroleum), solvent-refined	64742-01-4	5 - 28 %			
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	5 - 28 %			
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	5 - 28 %			
Oils, animal, mixed with vegetable oils, sulfurized	68991-19-5	5 - 8 %			

Note: The product is made at 25-28% of a mixture of highly refined mineral oil (CAS no 64741-88-4, 64742-54-7 and 64742-01-4) containing no polycyclic aromatic hydrocarbon (PAH). P.S. for CAS no: 61788-76-9: Chlorinated paraffins are a group of compounds varying in molecular structure by carbon chain length and degree of chlorination. The chlorinated paraffin materials used in this product are medium-chain, C14-C17, containing <1% of C10-C13, and with a degree of chlorination of 40% to 60%.

4. First-aid n	neasures		
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.		
Skin contact	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention. Discard contaminated leather articles such as shoes and belt.		
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.		
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water. Never give anything by mouth if victim is unconscious or convulsing. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately.		
Other	No information available.		
Symptoms	May cause redness and slight irritation of the skin and to eyes. High concentrations may cause central nervous system depression characterized by headache, dizziness, vertigo, nausea, drowsiness and fatigue.		
Notes to the physician	If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.		

5. Fire-fighting measures			
Suitable extinguishing media	Dry chemicals, water spray, chemical foam, carbon dioxide (CO2). Do not use a heavy water jet.		

Specific hazards arising from the chemical	Flammable aerosol. Content under pressure, containers may explode under fire conditions. Vapours are heavier than air and may travel to an ignition source distant from the material handling point.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Use water spray to cool fire-exposed containers. Water spray can reduce the intensity of the flames. However, the water jets can spread the fire. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental re	lease measures
Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent entry in sewer and other enclosed area.
Methods and materials for containment and cleaning up	Ventilate the area well. Remove sources of ignition. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Dispose via a licensed waste disposal contractor.

7. Handling and storage				
Precautions for safe handling	Use in well ventilated area. Avoid contact with eyes. Avoid prolonged contact with skin. Avoid prolonged or repeated breathing of vapour or mists. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. Avoid contamination with another chemical product. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. After use, wash hands with soap and water. Wash contaminated clothing before reuse.			
Conditions for safe storage, including any incompatibilities	Store tightly close and in properly labelled container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials (see section 10). Keep away from direct sunlight and heat.			
Storage temperature	5 to 45°C (41 to 113°F)			

macura controle/parconal protection

Immediately Dangerous to Life or Health	Hydrogen sulfide: 100 ppm.					
Petroleum gases, liquefied, sweetened			Simple asphyxiant	1000 ppm		ACGIH , BC, ON, OSHA, RSST
Distillates (petroleum), hydrotreated heavy paraffinic		TWA (8h)	Mist		5 mg/m ³	ACGIH , ON, RSST
Oils, animal, mixed with vegetable oils, sulfurized		TWA (8h)	Mist		5 mg/m ³	ACGIH
			Mist		10 mg/m ³	BC, ON, RSST
Distillates (petroleum), solvent-refined heavy paraffinic		TWA (8h)	Mist		5 mg/m ³	ACGIH , RSST
Residual oils (petroleum), solvent-refined		TWA (8h)	Mist		5 mg/m ³	ACGIH , RSST
Hydrogen sulfide		Ceiling		10 ppm		BC
		STEL		5 ppm		ACGIH

		15 ppm		ON
		15 ppm	21 mg/m ³	RSST
	TWA	1 ppm		ACGIH
	(8h)			
		10 ppm		ON
		10 ppm	14 mg/m ³	RSST
Appropriate engineering controls	Provide sufficient mechanical ventilation (ge concentrations of vapours, mists, aerosols climits.			
Individual protection n	neasures			
Eye	Wear safety glasses. If there is a risk of con	tact with eyes, v	vear chemic	al splash goggles.
Hands	If any risk of skin contact wear nitrile gloves. Disposable nitrile gloves can also be used, but discard after single use. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.			
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. If necessary, wear an apron or long-sleeve protective coverall suit.			
Respiratory	A respirator is not required in a well-ventilated area. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA.			
Feet	No personal protection measure required.			
		19		





Safe	tv a	lasses
	·, 9	

Nitrile gloves

9. Physical and chemical properties					
Physical state	Aerosol (liquid)	Flammability	Flammable		
Colour	Brownish	Flammability limits	N/Av.		
Odour	Lard oil odor	Flash point	250°C (482°F) Setaflash		
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.		
рН	N/Ap.	Sensibility to electrostatic charges	N.Av.		
Melting point	N/Av.	Sensibility to sparks and/or friction	N.Av.		
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)		
Boiling point	250°C (482°F)	Relative density	1.03 kg/L (Water = 1)		
Solubility	Insoluble in water.	Partition coefficient n-octanol/water	N/Av.		
Evaporation rate	< Butyl Acetate	Decomposition temperature	N/Av.		
Vapour pressure	N/Av.	Viscosity	100 cSt @ 40°C (104°F)		
Percent Volatile	N/Av.	Molecular mass	N/Ap.		

N/Av.: Not Available	N/Ap.: Not Applicable	Und.: Undetermined	N/E: Not Established
----------------------	-----------------------	---------------------------	----------------------

10. Stability and reactivity	
Reactivity	No known dangerous reactions.
Chemical stability	Stable under recommended storage conditions. Aerosol containers are unstable at temperatures above 49 °C.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with incompatible materials. DO NOT puncture, cut, heat or burn container, even after use.
Incompatible materials	Strong oxidizing agents (e.g. nitric acid, perchloric acid, peroxides, nitrates, chlorates and perchlorates), strong acids, strong bases.
Hazardous decomposition products	Emission of hydrogen sulfide (H2S) when heated at high temperature.

measures of toxicity Petro Lard, Distill Distill Oils, Resid Hydro Likely routes of exposure Delayed, immediate and chronic effects Skin	roleum gases, liqued, oil illates (petroleum) illates (petroleum) , animal, mixed wi idual oils (petroleum)	efied, sweetened , hydrotreated heavy para , solvent-refined heavy para th vegetable oils, sulfurize um), solvent-refined	araffinic ed	Skin Inhalation Ingestion Skin Ingestion Skin Ingestion Inhalation Skin Ingestion Skin Ingestion Skin Ingestion Skin	>21.5 ml/kg >10 ml/kg 520400 ppm/2h >2000 mg/kg >2000 mg/kg >15000 mg/kg >5000 mg/kg >5000 mg/kg 2.18 mg/l/4h >5000 mg/kg >5000 mg/kg >2000 mg/kg >5000 mg/kg >5000 mg/kg	Rat Rabbi Rat Rabbi Rat Rat Rabbi Rat	LD50 LD50 LD50 t LD50 t LD50 t LD50 LC50 t LD50 LD50 t LD50 t LD50
measures of toxicity Petro Lard, Distill Oils, Resid Hydro Likely routes of exposure Delayed, immediate and chronic effects Skin	roleum gases, liqu d, oil illates (petroleum) illates (petroleum) , animal, mixed wi idual oils (petroleurogen sulfide	efied, sweetened , hydrotreated heavy para , solvent-refined heavy para th vegetable oils, sulfurize um), solvent-refined	araffinic ed	Skin Inhalation Ingestion Skin Ingestion Skin Ingestion Inhalation Skin Ingestion Skin Ingestion Skin Ingestion Skin	>10 ml/kg 520400 ppm/2h >2000 mg/kg >2000 mg/kg >15000 mg/kg >5000 mg/kg >5000 mg/kg 2.18 mg/l/4h >5000 mg/kg >5000 mg/kg >2000 mg/kg	Rat Rat Rat Rabbi Rat Rat Rabbi Rat Rat Rabbi Rat Rabbi Rat Rabbi	LD50 LC50 LD50 t LD50 LD50 LD50 LC50 t LD50 LD50 t LD50 t LD50
Likely routes of exposure Delayed, immediate and chronic effects Resid	idual oils (<mark>petroleu</mark> rogen sulfide	um), solvent-refined		Skin : Ingestion : Skin :	>2000 mg/kg >5000 mg/kg	Rabbi Rat	t LD50 LD50
Delayed, immediate and chronic effects Eye of Skin	ı, eyes, inhalation,	ingestion.		IIIIIaialioii	444 mg/l/4h	Rat	LC50
immediate and chronic effects Skin		Skin, eyes, inhalation, ingestion.					
		May cause slight irritation ingredient of this mixture of					
Inhal							
		Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. High concentrations may cause central nervous system depression characterized by headache, dizziness, vertigo, nausea, drowsiness and fatigue. Inhalation in large amounts of petroleum gases (CAS no 68476-86-8) may cause asphyxiation.					
Inges		Low degree of acute toxicity. May cause gastro-intestinal irritation with nausea and vomiting.					
sens	piratory or skin	Ingredients present at leve or respiratory sensitizers.	_	ter than or e	equal to 0.1% o	of this p	roduct are not ski
IARC Class		or respiratory serisitizers.		ITP R			

Interactive effects	Mutagenicity Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure No information availa	IARC: 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP: K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens. Chlorinated paraffins of average carbon-chain length C12 and average degree of chlorination approximately 60% are possibly carcinogenic to humans (Group 2B) [IARC]. However, chronic ingestion studies in animals have shown that repeated doses of a similar chlorinated paraffin (C14-17, 52% chlorinated) gave no effect levels in the range of 250-300ppm. The lack of genotoxic activity together with the results of other studies leads to the conclusion that this chlorinated paraffin is unlikely to present a carcinogenic hazard to man under normal conditions of handling and use. The following information has been reported for the aliphatic petroleum distillates with regards to carcinogenicity (IARC, 1987): Untreated and mildly-treated oils are carcinogenic to humans (Group 1), and highly-refined oils are not classified as carcinogenic to humans. Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects. Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects. No target organ is listed.
Other	The oral and skin acu	ute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000
information	mg/kg. The acute tox	icity estimates (ATE) by inhalation (dust/mist) of the mixture was calculated to be greater than 2000 icity estimate (ATE) by inhalation (dust/mist) of the mixture was calculated to be greater see values are not classified according to WHMIS 2015 and OSHA HCS 2012.

12. Ecologic	al information							
Ecological toxicity	Fish - Ory <mark>zias latipes CESO >0.125 mg/L [Alkanes (C10-12), chloro OECD 204</mark>							
	Aquatic Invertebrate - Daphnia magna CESO 0.005-0.05 mg/L; 21 days [Alkanes (C10-12), chloro]							
	Aquatic Invertebrate - Daphnia magna EC50 0.0059 mg/L; 48 h [Alkanes (C14-17), chloro]							
	Aquatic Invertebrate - Crustaceans - Gammarus pulex (fresh water) EC50 1 mg/L; 96 h [Alkanes (C14-17), chloro]							
Persistence	Contains an or many ingredients that may be persistent in aquatic environment.							
Degradability	The product is a heavy hydrocarbon mixture in which some ingredients are not readily biodegradable (OECD 301B, IUCLID). Chlorinated paraffins do not biodegrade readily based on limited data (IPCS 1996, HSDB 2009).							
Bioaccumulative potential	No information available for this product. The product is a mixture of heavy hydrocarbon which some ingredients may be bioaccumulative. Chlorinated paraffins have low water solubility and have a high partition coefficient log Kow from 4,48 to 7,38. These values indicate a high degree of bioaccumulation.							
Mobility in soil	Insoluble in water. The product (CAS no 68476-86-8) is a light hydrocarbon mixture which is readily evaporated into the air. This mixture is likely to have high Koc values (>5000), indicating a high degree of sorption to the organic matter in soils. This value suggests that some components will display low mobility and some will be essentially immobile in soil. If released to soil, chlorinated paraffins are bound to the soil particles and are not expected to volatilize or to leach into groundwater.							
Other adverse effects	This chemical does not deplete the ozone layer.							

13. Disposal considerations



Important! Prevent waste generation. Use in full. DO NOT puncture, cut, heat or burn container, even after use. DO NOT dispose residue in sewers, streams or drinking water supply. Depressurize empty container (empty it of its propellant). Non-use oils, organic solvents and wastes residues can be reprocessed (recycle) where there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport in	formation						
UN Number	UN 1950						
UN Proper Shipping Name	AEROSOLS						
Environmental hazards	Chlorinated paraffins (C10-C17) are considered severe marine pollutants (PP).						
Special precautions for user	ermit required for transportation with proper placards displayed on vehicle. Exemption available: TD QTY according to TDG Canada - art. 1.17; Mode of transportation: rail, sea and road, applicable or Canadian domestic shipments. Quantitative limits: applicable for aerosol cans containing =< 1L ach.						
TDG - Transportation of	f Dangerous Goods (Canada)						
Transport hazard class(es)	Class 2.1						
Packing group							
Emergency response guidebook 2012	126						
IMO/IMDG - Internationa	al Ma <mark>ritime Transport</mark>						
Classification	UN 1950. AEROSOLS. Class 2.1, Emergency schedules (EmS-No) F-D, S-U						
IATA - International Air	Transport Association						
Classification	UN 1950. AEROSOLS, FLAMMABLE. Class 2.1.						
These transportation classifications	are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper						

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Alkanes (C14-17), chlor	o 61788-76-9		X		Х
Petroleum gases, liquefied, sweetened	68476-86-8		Х		Х
Lard, oil	8016-28-2		X		
Residual oils (petroleum), solvent-refined	64742-01-4		X		
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4		X		
	64742-54-7		Х		

transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

Distillates (petroleum), hydrotreated heavy paraffinic			
Oils, animal, mixed with vegetable oils, sulfurized 68991-19-5	Х		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

		100						/	
Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(r)	CWA 311	CWA Prio.
Alkanes (C14-17), chloro	61788-76-9	X							
Petroleum gases, liquefied, sweetened	68476-86-8	Х							
Lard, oil	8016-28-2	Х							
Residual oils (petroleum), solvent-refined	64742-01-4	Х							
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	X							
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7								
Oils, animal, mixed with vegetable oils, sulfurized	6899 <mark>1-19-5</mark>	Х							

TIME

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act List of Hazardous Substances
- CWA Priority: Clean Water Act Priority Pollutant list

California Proposition 65

No ingredients listed.

Other regulations

WHMIS 1988



R5

Class B5: Flammable Aerosol

HMIS NFPA





16. Other int	formation
Date (YYYY-MM-DD)	AEROCHEM Inc. 2015-12-30
Version	
Other information	REFERENCES: - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php - TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, http://toxnet.nlm.nih.gov/ - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), http://www.reptox.csst.qc.ca - High Production Volume (HPV) Chemical Challenge Program, U.S. EPA, http://www.epa.gov/hpv/ - Toxicological Review, Integrated Risk Information System (IRIS), USA Environment Protection Agency, www.epa.gov/iris - IPCS INCHEM, Chemical Safety Information from Intergovernmental Organizations, Canadian Centre for Occupational Health and Safety (CCOHS), Copyright International Programme on Chemical Safety (IPCS), http://www.inchem.org ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System
Powered by	To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
A global vision of prevention	