



1. IDENTIFICATION

PRODUCT CODE: TK598
PRODUCT NAME : Thread Locker
USAGE : For industrial and professional usage
USAGE ADVISED AGAINST : Any non-intended use
SUPPLIER: Tec-N-Tec Inc.
8244 Pascal-Gagnon
Montreal, QC, H1P 1Y4
Phone : (514)325-7777
EMERGENCY TELEPHONE : CANUTEC : (613)996-6666

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE :

- Serious eye damage/eye irritation, cat. 1
- Respiratory sensitization, cat. 1
- Skin irritation, cat. 1A
- Specific target organ toxicity – single exposure, STOT SE 3
- Hazardous to the aquatic environment, Aquatic chronic 3

PICTOGRAMS : (GHS05 - GHS07)



WARNING :

- Danger

HAZARD STATEMENTS :

- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS :

- P280 Wear protective gloves, protective clothing, eye and face protection.
- P301+330+331 If swallowedL rinse mouth. Do not induce vomiting
- P303+361+353 If on skin(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+351+338 If in the eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER / Doctor.
- P501 Dispose of waste according to applicable legislation.

OTHER HAZARDS :

- Not applicable

3. HAZARDOUS COMPONENTS

CHEMICAL NAME	INDEX No.	%	EC No.	CAS No
Methacrylic acid, monoester with propane-1,2-diol		45 - < 50	248-666-3	27813-02-1
Acrylic acid, prop-2-enoic acid	607-061-00-8	5 - < 10	201-177-9	79-10-7
Aliphatic urethane acrylate		5 - < 10		
Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide	617-002-00-8	< 1	201-254-7	80-15-9
2'-Phenylacetohydrazine		< 1	204-055-3	114-83-0

4. FIRST AID

INHALATION : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SKIN : Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Immediately get medical attention.

EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue to rinse. Consult an ophthalmologist.

INGESTION : Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effects). Never give anything by mouth to an unconscious person or a person with cramps. Immediately get medical advice.

IMPORTANT SYMPTOMS ET EFFECTS : No information available.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED : Treat symptomatically.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Fine water spray, foam, carbon dioxide, dry extinguishing powder.

UNSUITABLE EXTINGUISHING MEDIA : High power water jet.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OF MIXTURE : Can be release in case of fire: Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxide (Nox).

HAZARDOUS COMBUSTION PRODUCTS : Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxide (Nox).

SPECIAL PROTECTIVE EQUIPMENT AND FIREFIGHTER PRECAUTIONS : Wear self-contained breathing apparatus and chemical protective suit. In case of fire and/or explosion, do not breath fumes. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Provide adequate ventilation. Do not breath gas/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Ventilate affected area. Treat the assimilated material according to the section on waste disposal. Clear contaminated area thoroughly. Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of leakage into waters, ground or drainage system, the appropriate authorities must be informed.



7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING :

Provide adequate ventilation. Wear suitable protective clothing. In case of fire and/or explosion do not breath fumes. Usual measures for fire prevention. Do not breath gas / vapors / spray. Avoid contact with skin, eye and clothing.

CONDITIONS FOR SAFE STORAGE:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Do not store with: Explosives, Radioactive substances. Infectious substances. Organic peroxides. Oxidizing solids. Oxidizing liquids. Pyrophoric liquids and solids. Flammable substances. Substances or mixtures which, in contact with water, emit flammable gases. Non-combustible toxic substances. Protect against: Light. UV-Radiation/sunlight. Heat. Cooling. Moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

Exposure limits : To date, no national limit values exist.

Appropriate engineering controls : In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Individual protection measures :

- *Protective and hygiene measures :* Always close containers tightly after removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing.
- *Eye/Face protection :* Appropriate eye protection. Tightly sealed safety glasses (DIN EN 166).
- *Hand protection :* Pull-over rubber gloves (DIN EN 374). Suitable material: (Breakthrough time \geq 480min. penetration time(maximum wearing period): 160min.). Butyl rubber (0,5mm). Before using, check leak, tightness and impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
- *Skin protection :* Wear protective clothing. Lab apron.
- *Respiratory protection :* Respiratory protection required in case of: Insufficient ventilation. Generation/formation of aerosols. Generation/formation of mist. Suitable respiratory protective equipment: Combination filter device (DIN EN 141). Type: A / P2 / P3, The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used.
- *Environmental exposure controls :* Do not empty into drains or the aquatic environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and colour : Liquid / Green

Odour : Characteristic

pH : Not determined

Melting point/Freezing point: Not determined

Boiling point : Not determined

Flash point : Not determined

Evaporation rate : Not determined

Flammability (solid and gas) : Non-flammable

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapour pressure : Not determined

Vapour density : Not determined

Relative density : Not determined

Water solubility : Not determined

Other solvents : Not determined

Partition coefficient n-octanol/water : Not determined

Auto-ignition temperature : Not determined

Decomposition temperature : Not determined

Kinematic viscosity : Not determined

10. STABILITY AND REACTIVITY

Reactivity : No information available.

Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions : Materials to avoid: Strong acid, Oxidizing agents, Strong Alkalis, Concentrated.

Conditions to avoid : Protect against: Light, UV-Radiation/sunlight, Heat, Cooling, Moisture.

Incompatible materials : Materials to avoid: Strong acid, Oxidizing agents, Strong Alkalis, Concentrated.

Hazardous decomposition products : Can be release in case of fire: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (Nox).

11. TOXICOLOGICAL INFORMATION

Exposures routes : This product can be absorbed through inhalation, skin contact or digestion.

Acute toxicity : Based on available data, the classification criteria are not met.

CAS No/CHEMICAL NAME	EXPOSURE ROUTES	METHOD	DOSE	SPECIES	SOURCE
27813-02-1 / Methacrylic acid, monoester with propane-1,2-diol	Oral	LD50	> 2000 mg/kg	Rat	ECHA
	Dermal	LD50	> 2000 mg/kg	Rabbit	ECHA
79-10-7 / Acrylic acid, prop-2-enoic acid	Oral	ATE	500 mg/kg		
	Dermal	LD50	> 294 mg/kg	Rabbit	RTECS
	Inhalative vapour	LC50	> 5,1 mg/l	Rat	ECHA
	Inhalative aerosol	ATE	1,5 mg/l		
80-15-9 / Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide	Oral	LD50	382 mg/kg	Rat	IUCLID
	Dermal	LD50	500 mg/kg	Rat	RTECS
	Inhalative vapour	LC50	(200) mg/l	Mouse	IUCLID
	Inhalative aerosol	ATE	0,5 mg/l		
114-83-0 / 2'-Phenylaceto-hydrazide	Oral	LD50	270 mg/kg	Mouse	

Irritation and corrosion on skin : Causes severe skin burns.

Irritation and serious eye damage: Causes severe eye damage.

Sensitizing effects : People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

STOT-Single exposure : May cause respiratory irritation. (2'-Phenylaceto-hydrazide)

Carcinogenicity / Toxic effects for reproduction / Germ cell mutagenicity :

Based on available data, the classification criteria are not met.

Methacrylic acid, monoester with propane-1,2-diol:

In-vitro mutagenicity:

In vitro mammalian chromosome aberration test = positive. Literature information: Mutation Research 517 (1-2): 187-198,

OECD Guideline 471 (Bacterial reverse mutation assay) = negative. Literature information: ECHA Dossier

OECD Guideline 472 (Genetic toxicology: escherichia coli, reverse mutation assay) = negative. Literature information: ECHA Dossier

OECD Guideline 476 (In vitro mammalian cell gene mutation test) = negative. Literature information: ECHA Dossier

In-vivo mutagenicity:

OECD Guideline 474 (Mammalian erythrocyte micronucleus test) = negative. Literature information: ECHA Dossier

Carcinogenicity: Rat. NOAEC = >2,05 mg/l; Literature information: ECHA Dossier

Developmental toxicity/teratogenicity (Rat). NOAEL =>50mg/kg(bw)/day; Literature information: ECHA Dossier

Acrylic acid, prop-2-enoic acid:

In-vitro mutagenicity:

OECD Guideline 476 (In vitro mammalian cell gene mutation test) = negative. Literature information: ECHA Dossier

In-vivo mutagenicity:

No experimental indications of mutagenicity in-vivo exist. Literature information: ECHA Dossier

Carcinogenicity: Rat. NOAEL = >10 mg/kg(bw)/day; Literature information: ECHA Dossier

Developmental toxicity/teratogenicity (Rat). NOAEC =>0,075 mg/l; Literature information: ECHA Dossier

Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide:

In-vitro mutagenicity:

OECD Guideline 471 (Bacterial reverse mutation assay) = positive. Literature information: ECHA Dossier

No experimental indications of mutagenicity in-vivo exist. Literature information: ECHA Dossier

12. ECOLOGICAL INFORMATION

Aquatic and terrestrial ecotoxicology :

CAS No/Chemical Name	TOXICITY	METHOD	DOSE	DURATION	SPECIES	SOURCE
27813-02-1 / Methacrylic acid, monoester with propane-1,2-diol	Acute Fish	LC50	833 mg/l	96h	Scophthalmus maximus	
	Acute Crustacea	EC50	>143 mg/l	48h	Daphnia magna	ECHA Dossier
79-10-7 / Acrylic acid, prop-2-enoic acid	Acute Fish	LC50	27 mg/l	96h	Onchorhynchus mykiss	ECHA Dossier
	Acute Algae	ErC50	0,13 mg/l	72h	Desmodesmus subspicatus	MSDS Extern
	Acute Crustacea	EC50	95 mg/l	48h	Daphnia magna	ECHA Dossier
80-15-9 / Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide	Acute Fish	LC50	3,9 mg/l	96h	Onchorhynchus mykiss	ECHA Dossier
	Acute Algae	ErC50	3,1 mg/l	72h	Pseudokirchnerella subcapitata	ECHA Dossier
	Acute Crustacea	EC50	18,84 mg/l	48h	Daphnia magna	ECHA Dossier

Persistence and degradability :

CAS No/Chemical Name	METHOD	Value	Day	Source	Evaluation
27813-02-1 / Methacrylic acid, monoester with propane-1,2-diol	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	> 81%	28	ECHA Dossier	Product is easily biodegradable
80-15-9 / Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide	OECD 301B/ ISO 9439 / EWG 92/69 Anhang V, C.4-C	3%	28	ECHA Dossier	Product is not easily biodegradable

Bioaccumulative potential :

CAS No	CHEMICAL NAME	LOG POW
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0.97
79-10-7	Acrylic acid, prop-2-enoic acid	0.35
80-15-9	Cumene hydroperoxide, alpha-dimethylbenzyl hydroperoxide	2.16

Mobility in soil : No data available

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.

Waste disposal code / unused products:

080409 - Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances. Classified as hazardous waste.

Waste disposal number of used product:

080409 - Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances. Classified as hazardous waste.

Waste disposal number of contaminated packaging:

150110 - Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances. Classified as hazardous waste.

14. TRANSPORT INFORMATION

UN Number : UN 1760

UN Proper shipping name : Corrosive liquid, N.O.S.

Transport hazard class(es) : 8

Packing group: II

Environmental hazards : No

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

Special precautions for user : Not determined

**15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU regulatory information :

- 1993/13/EC (VOC): No information available ; Directive COV 2004/42/CE: No information available
- The preparation is dangerous in the sense of Directive 1999/45/EC.
- This preparation is hazardous in the sense of regulation (EC) No 1272/2008 (GHS).
- Not subject to regulation 96/82/EC.
- REACH 1907/2006 Appendix XVII, No 3
- Employment restriction: Observe employment restrictions for young people.
- Water contaminating class (D): 2 – Water contaminating

Chemical safety assessment : Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATIONS

Written by: Tec-N-Tec inc.

Telephone: (514)325-7777

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THE ABOVE INFORMATION DESCRIBES EXCLUSIVELY THE SAFETY REQUIREMENTS OF THE PRODUCT AND IS BASED ON OUR PRESENT-DAY KNOWLEDGE. THE INFORMATION IS INTENDED TO GIVE YOU ADVICE ABOUT THE SAFE HANDLING OF THE PRODUCT NAMED IN THIS SAFETY DATA SHEET, FOR STORAGE, PROCESSING, TRANSPORT AND DISPOSAL. THE INFORMATION CANNOT BE TRANSFERRED TO OTHER PRODUCTS. IN THE CASE OF MIXING THE PRODUCT WITH OTHER PRODUCTS OR IN THE CASE OR PROCESSING, THE INFORMATION ON THIS SAFETY DATA SHEET IS NOT NECESSARILY VALID FOR THE NEW MADE-UP MATERIAL.