

Safety Data Sheet

Auto Klene Solutions

Classified as: Hazardous Chemical. Non-Dangerous Goods

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: TAG

Supplier: Auto Klene Solutions
1/83 Merrindale Drive
Croydon
VIC 3136
Australia

Phone: +61 3 8761 1900

Fax: +61 3 8761 1955

Website: <https://www.autoklene.com/msds/>

Recommended Use: Graffiti Removal

In Case of Emergency Contact: 131 126 (Poisons Information Centre)
0408 406 968

Section 2: HAZARDS IDENTIFICATION

TAG is not classified as a Dangerous Good according to the Australian Dangerous Goods Code.
TAG is classified as hazardous according to Globally Harmonised System of Classification and Labelling.

Signal Word: DANGER

Poisons Schedule: 6

GHS Classification: Reproductive Toxicity Cat 1B
Eye Irritation Cat 2
Skin Irritant Cat 2
STOT (Single Exposure) Cat 2
Acute Toxicity (Inhalation) Cat 3

Hazard Statements: Causes serious eye irritation
May damage the unborn child
Causes skin irritation
May cause respiratory irritation
Harmful if inhaled

GHS Pictograms:



PREVENTION STATEMENTS:

P102 - **Keep out of reach of children.**P202 - **Do not handle until all safety precautions have been read and understood.**P234 - **Keep only in original container.**P260 - **Do not breathe mists/spray.**P262 - **Do not get in eyes, on skin, or on clothing.**P264 - **Wash hands, exposed skin, thoroughly after handling.**P280 - **Wear protective gloves, protective clothing, eye protection, face protection.**

RESPONSE STATEMENTS:

P301 + P330 + P331 - **IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.**P303 + P361 + P353 + P363 - **IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.**P305 + P351 + P338 - **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P304 + P340 - **IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**P308 + P313 - **IF exposed or concerned: Get medical advice.**P390 - **Absorb spillage to prevent material damage.**

STORAGE

P405 - **Store locked up**

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
N-METHYL 2-PYRROLIDONE	872-50-4	<30%
2-BUTOXYETHANOL	111-76-2	<25%
BENZYL ALCOHOL	100-51-6	<15%
AMINES, COCO ALKYL DIMETHYL, OXIDES	61788-90-7	<3%
Non-hazardous ingredients		Balance

Section 4: FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a Doctor.

Workplace Facilities Required: Eye wash and washroom facilities recommended.

If Inhaled: Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

In Contact with Eye: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

In Contact with Skin: Wash thoroughly with soap and water. If symptoms persist or irritation develops, seek medical advice.

If Swallowed:	Wash out mouth with water, then give water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Product is a combustible liquid. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding.
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous Products of Combustion	Carbon oxides, Nitrogen oxides (NOx)
Precautions in Connection with Fire:	If safe to do so, remove containers from path of fire. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.
Advice for firefighters:	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

Section 6: ACCIDENTAL RELEASE MEASURES

Precautions:	Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Stop leak if safe to do so. Avoid walking through spilled product as it may be slippery. Use clean, non-sparking tools and equipment.
Suitable Protective Equipment:	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.
Spill or Leak Procedures:	Contain spillage, and then collect and place in container for disposal according to local regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do not discharge into the soil. Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.
Waste Disposal Methods:	Dispose of as per Section 13.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours.
Storage:	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight, moisture and static discharges. Storage temperature should not exceed 50°C.
Container:	Store in original packaging as approved by manufacturer.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards:	Methyl-2-pyrrolidone TWA = 25ppm (103mg/m ³) STEL = 75ppm (309mg/m ³) Notice: Skin 2-Butoxyethanol TWA = 20 ppm (96.9 mg/m ³) STEL = 50 ppm (242 mg/m ³) Notice: Skin
Engineering Controls:	Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered, and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.
Personal Protective Equipment:	RESPIRATOR: Respiratory protection required in case of exceeding the occupational exposure limit: Gas filter for gases/vapours of organic compounds (boiling point >65 deg C, Type A). Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic compounds and solid and liquid particles (Type A-P2). EYES: Safety glasses with side-shields. HANDS: Chemical resistant protective gloves (butyl rubber, nitrile rubber) CLOTHING: Chemical-resistant clothing and safety footwear.
Other information:	Do not eat, smoke or drink where material is handled, processed or stored. Wash thoroughly after handling and remove contaminated clothing before entering eating areas. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Odour:	Amine
Odour threshold:	Not available	Melting Point:	Not available
pH (1% aqueous solution):	n/a	Solubility:	Soluble in water
Boiling point:	Not available	Flash Point (Closed Cup):	Not available
Flammability:	Non-flammable	Specific Gravity:	0.98 at 20°C
Vapour pressure:	Not determined	Viscosity:	Not available
Flammability Limits:	Not applicable	Autoignition Temp:	Not available
Decomposition Temp:	Not applicable	Vapour Density:	Not available
Octanol/Water Partition Coefficient:	Not available		

Section 10: STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions of use, storage and temperature.
Reactivity:	Reacts with strong acids and alkalis to produce an exothermic reaction.
Conditions to Avoid:	Avoid all sources of ignition: heat, sparks, open flame.
Incompatibility:	Strong acids, strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products:	Toxic gases/vapours. Thermal decomposition: approx. > 300 deg C No decomposition if used as directed. Prolonged thermal loading can result in products of degradation being given off. If product is heated above decomposition temperature toxic vapours may be released.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	For ingredient: N-methyl 2-pyrrolidone: LD50 Oral - Rat - 3,914 mg/kg; LDLO Inhalation - Rat - 4 h - > 5100 ppm; LD50 Dermal - Rabbit - 8,000 mg/kg
Inhalation:	Irritating to respiratory system.
Ingestion:	Large amounts may cause nausea and vomiting.
Skin Contact:	Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Can be absorbed through the skin with resultant adverse effects.
Eye Contact:	Irritating to eyes.
Sensitiser:	Not sensitising.
Chronic Exposure:	For N-Methyl-2-pyrrolidone: In a two-year rat feeding study, males showed signs of chronic progressive nephropathy; no treatment related tumors were seen. At very high repeated inhalation doses (1.0 mg/L), NMP caused focal pneumonia, bone marrow hypoplasia and atrophy of lymphoid tissue, 0.5 mg/L was the no effect level.
Mutagen / Carcinogen / Reproductive Toxicant	For N-Methyl-2-pyrrolidone: reproductive toxin 'May damage the unborn child'. Developmental effects, including post implantation loss, fetal malformations and pup mortality, have been observed in rats, rabbits and mice following high dose exposures.
Specific Target Organ Systemic Toxicity:	Respiratory irritant.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	For N-methyl-2-pyrrolidone: Toxicity to fish LC50 - other fish - 4,000 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l
Persistence/degradability:	Readily biodegradable.
Bio-accumulation:	No information available on bioaccumulation for this product. Individual ingredients have low bio-accumulation potential.
Mobility:	Product is soluble in water.

Section 13: DISPOSAL CONSIDERATIONS

Disposal:	Dispose of waste product via an approved chemical waste disposal contractor.
Disposal of Packaging:	Dispose of packaging via an approved chemical waste disposal contractor.

Section 14: TRANSPORT INFORMATION

TAG is classified as NON-DANGEROUS GOODS for transport in accordance with the Australian Dangerous Goods Code (Road/Rail), IMDG (sea) and IATA (air).

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Poisons Schedule 6 (N-methyl-2-pyrrolidone, 2-butoxyethanol)

AICS All ingredients listed

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 01 Jan 2021

References:

Global Harmonized System of Classification and Labelling of Chemicals (GHS)
Safety Data Sheets – individual raw materials – Suppliers
International Maritime Dangerous Goods Code
IATA Dangerous Goods Regulations
ADG Australian Dangerous Goods Code

END OF SAFETY DATA SHEET