

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product name: KS368 - TAN TITRANT
Product code: AS-K23962-KW
Use of substance / mixture: Oil Test Reagent
Company name: Kittiwake Developments Ltd
3 - 6 Thorgate Road
Lineside Ind Estate
Littlehampton
West Sussex
BN17 7LU
United Kingdom
Tel: + 44 (0) 1903 731470
Fax: + 44 (0) 1903 731480
Emergency tel: + 44 (0) 1903 731470
Email: sds@kittiwake.com

2. HAZARDS IDENTIFICATION

Classification under CHIP: Highly flammable.
Workplace exposure limit: This product has a workplace exposure limit: (UK: WEL 8 hr exposure 1920 mg/m³).
PBT: This substance is not identified as a PBT substance.
Directive 1999/45/EC: This mixture meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.
Other hazards: In use, may form flammable / explosive vapour-air mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHANOL SOLUTION >90%
EINECS: 200-578-6 CAS: 64-17-5
[F] R11

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately.
Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder.
- Exposure hazards:** Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Do not use equipment in clean-up procedure which may produce sparks. Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

7. HANDLING AND STORAGE

- Handling requirements:** Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.
- Suitable packaging:** Steel drums.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Workplace exposure limits:** UK - 8 hour TWA: 1920 mg/m³
- Hazardous ingredients:** ETHANOL SOLUTION
UK - 8 hour TWA: 1920 mg/m³
- Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
- Respiratory protection:** Respiratory protection not required.
- Hand protection:** Protective gloves.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Liquid
- Colour:** Colourless
- Odour:** Characteristic odour

Evaporation rate: Moderate
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Miscible
Also soluble in: Chloroform. Acetone. Diethyl ether.
Viscosity: Non-viscous
Boiling point/range°C: 78
Melting point/range°C: -130
Flammability limits %: lower: 3.3
upper: 19
Flash point°C: 12
Autoflammability°C: 363
Vapour pressure: 44.6mm@20°C
Relative density: 0.785

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Stable at room temperature.
Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.
Materials to avoid: Strong oxidising agents. Strong acids.
Haz. decomp.p roducts: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.
Persistence and degradability: Biodegradable.
Bioaccumulative potential: No bioaccumulation potential.
Other adverse effects: Negligible ecotoxicity.
PBT identification: This substance is not identified as a PBT substance.

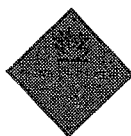
13. DISPOSAL CONSIDERATIONS

Disposal operations: Incineration on land.
Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1170	ADR Class: 3
Packing group: II	Classification code: F1
Shipping name: ETHANOL (ETHANOL)	
Labelling: 3	Hazard ID no: 33



IMDG / IMO

UN no: 1170	Class: 3
Packing group: II	EmS: F-E,S-D
Marine pollutant: NO	Labelling: 3

IATA / ICAO

UN no: 1170	Class: 3
Packing group: II	Packing instructions: 305(P&CA); 307(CAO)
Labelling: 3	

15. REGULATORY INFORMATION (CHIP)

Hazard symbols: Highly flammable.



Risk phrases: R11: Highly flammable.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: * indicates text in the SDS which has changed since the last revision.

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Risk phrases used in s.3: R11: Highly flammable.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.