

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Code: KELT
Product name: KELT

1.2 Use of the substance / preparation

1.3 Company identification

Name: Tenax Spa
Full address: via I Maggio 226
District and Country: 37020 Volargne (VR)
Italy
Tel. 045/6860222
Fax 045/6862456

1.4 Emergency telephone

For urgent inquiries refer to: tenax@tenax.it
<http://www.tenax.it>

2. Composition / Information on ingredients

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3. Hazards Identification

3.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: F
Phrases R: 11

3.2 Danger Identification

Because of its chemical-physical features, this product is graded as highly flammable (flash-point below 21 °C).

4. First aid measures

No harm to the staff authorised to use has been reported. However, in case of contact, inhalation or ingestion, the following general measures provided for a first aid shall be taken.

INHALATION: remove to open air. If respiration is difficult, administer artificial respiration and seek medical advice.

INGESTION: seek medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

EYES and SKIN: wash with plenty of water; if the irritation persists, seek medical advice.

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5. Fire-fighting measures

Closed containers exposed to the heat of a fire may lead to pressure rise and explode. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of this sheet.

Extinguishing measures: CO₂, foam, chemical powder for flammable liquids. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in stopping the leakage.

Equipment: wear equipment complete with helmet and face shield and protection of the neck, selfbreathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist.

6. Accidental release measures

Exclude sources of ignition. Cover with inert absorbent material. Collect spillages by means of sparkproof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer.

Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see the other sections of this sheet.

Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

7. Handling and storage

Avoid the accumulation of electrostatic charges. Store the containers sealed and in a well ventilated place. Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring crossventilation. Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback. Keep far away from sources of heat, sparks and naked flames. Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots.

Vigorous stirring and flow through the pipings and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement.

8. Exposure control / personal protection.

ETHANOL
- TLV TWA 1880 mg/m³ ACGIH

TLV of solvent mixture: 1880 mg/mc

Follow the good industrial hygiene practices adopting suitable individual protective measures, such as gloves and overall. Do not eat or smoke while handling the product. Wash hands before eating and at the end of the work shift. Periodic health controls are recommended at the discretion of the doctor.

9. Physical and chemical properties

Colour	PINKY
Odour	TYPICAL
Appearance	LIQUID
Solubility	SOLUBLE IN WATER
Viscosity	5-10 CPS
Vapour density	N.A.
Evaporation speed	N.A.
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	N.A.
Boiling point	N.A.
Flash point	< 21 °C

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Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	0,8 Kg/l
VOC:	80,00 % - 640,00 g/litre of preparation
VOC (volatile carbon) :	41,68 % - 333,41 g/litre of preparation

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

Ethanol reacts violently with strong oxidizing agents.

11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This preparate may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal consideration

Consider the possibility of burning the product in a suitable incinerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR:	3	UN: 1866
Packing Group:	II	
Label:	3	
Nr. Kemler:	33	
Proper Shipping Name:	Resin solution	
Special Provision:	640D	

Carriage by sea (shipping):

IMO class:	3	UN: 1866
Packing Group:	II	
Label:	3	
EMS:	F-E, <u>S-E</u>	
Proper Shipping Name:	Resin solution	

Transport by air:

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IATA:	3	UN: 1866	
Packing Group:	II		
Label:	3		
Cargo:			
Packaging instructions:	307	Maximum quantity:	60 L
Pass.:			
Packaging instructions:	305	Maximum quantity:	5 L

15. Regulatory information

F



HIGHLY FLAMMABLE

- R11 HIGHLY FLAMMABLE.
- S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.
- S16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.
- S33 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

Danger labelling under regulations 67/548/EEC and 1999/45/EC and following amendments and adjustments.

16. Other information

GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXIX);
3. Regulation 91/155/CEE and following amendments;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review

The following sections were modified:

01 / 08 / 09 / 15