

Safety Data Sheet

DATE : 01 : 10 : 2002

REVISION (see box 16)

ISSUE NO : 02

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME	: TECHNOGENE 2
DESCRIPTION	: A clear, green liquid with a characteristic alcohol-type odour. Used as an antistatic screen cleaner.
COMPANY	: Rentokil Initial UK Ltd, IT Hygiene Division, Felcourt, East Grinstead, West Sussex. RH19 2JY. England. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229.

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF PRODUCT (SUPPLY - Use) UK CHIP 3 (The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002) / EC Directive 1999/45. NOT CLASSIFIED	DANGER SYMBOL (UK CHIP 3) : (Black on orange background) NOT REQUIRED
ADVERSE PHYSICO-CHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (see also box 11) : No adverse physico-chemical effects known. May cause discomfort if splashed in eyes. Adverse effects on the environment are unlikely, provided that the product is used as intended.	

3. COMPOSITION / INFORMATION ON INGREDIENT(S)

% w/w	COMMON*/CHEMICAL NAME, ELINCS / EINECS AND CAS No OF INGREDIENT(S)	UK CHIP 3 / EC 1999/45 CLASSIFICATION OF INGREDIENT(S)
> 10 ≤ 25	Isopropanol* / propan-2-ol EINECS: 200-661-7 CAS: 67-63-0	F - Highly flammable : R11 : Highly flammable. X _i - Irritant : R36 : Irritating to eyes. R67 : Vapours may cause drowsiness and dizziness.

4. FIRST-AID MEASURES (see also "adverse effects" in box 2)

INHALATION (Breathing)	: Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
EYE CONTACT	: Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
SKIN CONTACT	: Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
INGESTION (Swallowing)	: Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to 1 pint of water to drink. Seek medical attention.
EMERGENCY EQUIPMENT SUGGESTED	: Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".
NOTE TO DOCTOR	: For further information contact the National Poisons Information Service in the UK.

5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHER – TYPES	: Use dry powder, carbon dioxide, water-foam or water-fog.
SPECIAL FIRE-FIGHTING PROCEDURES	: Wear suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (see also box 8)	: Wear suitable personal protective equipment.
PROCEDURE (see also box 13)	: Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal. DO NOT contaminate watercourses or ground.

7. HANDLING AND STORAGE (see also box 8)

HANDLING	: Avoid contact with skin and eyes.
STORAGE	: Store in original container in a cool, dry, ventilated place out of reach of children and away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (see also box 7)

OCCUPATIONAL EXPOSURE LIMITS	: OES for isopropanol is 999 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 1250 mg/m ³ short-term exposure (15 minute reference period).
ENGINEERING CONTROLS	: Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	: None necessary under normal working conditions. However, avoid contact with eyes.
HAND PROTECTION	: None necessary under normal working conditions.
SKIN PROTECTION	: None necessary under normal working conditions.
BREATHING PROTECTION	: None necessary under normal working conditions.
ENVIRONMENTAL EXPOSURE CONTROLS	: Product should be used in accordance with instructions given and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	: A clear, green liquid with an alcohol-type odour.		
FLASH POINT	: 30°C.	SOLUBILITY IN WATER	: Soluble.
FLAMMABILITY	: Product does not support combustion.	SOLUBILITY IN FAT	: Not determined.
AUTOFLAMMABILITY	: Not applicable.	PARTITION COEFFICIENT	: Not applicable.
VAPOUR PRESSURE	: Not applicable.	BOILING POINT/RANGE	: Not determined.
SPECIFIC GRAVITY	: 0.97 at 20°C.	MELTING POINT/RANGE	: Not applicable.
OXIDISING PROPERTIES	: None known.	pH	: 8.3 at 20°C.
EXPLOSIVE PROPERTIES	: None known.	VAPOUR DENSITY	: Not applicable
VISCOSITY	: Not determined.	EVAPORATION RATE	: Not determined.
OTHER DATA	: None known.		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	: Avoid extremes of temperature, e.g. below 0°C and above 40°C.
MATERIALS TO AVOID	: None known.
HAZARDOUS BREAKDOWN PRODUCTS	: None known.

11. TOXICOLOGICAL INFORMATION (see also box 2)

ACUTE TOXICITY	Oral	: LD ₅₀ of isopropanol is 5840mg/kg (oral rat)
	Inhalation	: Isopropanol gas or vapour is harmful on prolonged exposure or in high concentration. Inhalation of vapours may cause drowsiness and dizziness.
	Dermal	: Isopropanol is toxic through skin adsorption.
CORROSIVITY / IRRITATION	Skin	: May cause slight skin irritation, especially on prolonged contact.
	Eyes	: May cause eye discomfort, especially on prolonged contact.
	Respiratory tract	: No data available.
SENSITISATION	Skin	: Contains no known skin sensitisers.
	Respiratory	: Contains no known respiratory sensitisers.
REPEATED-DOSE TOXICITY		: Product does not contain any components known to have any effects relating to repeated-dose toxicity.
MUTAGENICITY		: Product does not contain any components known to have a mutagenic effect.
CARCINOGENICITY		: Product does not contain any components known to have a carcinogenic effect.
REPRODUCTIVE TOXICITY	Fertility	: Product does not contain any components known to be toxic to the reproductive system, and having effects on fertility.
	Developmental	: Product does not contain any components known to be toxic to the reproductive system, and having effects on development.
OTHER INFORMATION		: No specific antidotes known.

12. ECOLOGICAL INFORMATION

GENERAL INFORMATION	: The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	: Isopropanol :LC ₅₀ fathead minnow: 9600 mg/l, LC ₅₀ 24 hr <i>Daphnia</i> > 1000 mg
MOBILITY (of appropriate constituents)	: Isopropanol is a volatile component and will partition to the air phase.
PERSISTENCE AND DEGRADABILITY (of appropriate constituents)	: Isopropanol : BOD ₂₀ > 8% ThOD
BIOACCUMULATIVE POTENTIAL (of appropriate constituents)	: Isopropanol is not expected to bioaccumulate. Predicted BCF = 1
ENVIRONMENTAL CONSIDERATIONS	: DO NOT contaminate watercourses or ground with large quantities of undiluted product. This product does not contain any substances that are classified as dangerous to the environment. Thus, when supplied, used and disposed of as directed this product is not expected to present a danger to the environment.
OTHER ADVERSE EFFECTS	: None known

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	: Waste should be disposed of in accordance with local, State or National requirements.
DISPOSAL OF CONTAINERS	: Empty containers should be disposed of in accordance with local, State or National requirements.
UK SPECIAL WASTE	: <u>Hazard Code:</u> H3-B - Flammable
REGULATIONS, 1996	: <u>Components making the waste special and their concentrations</u> : Isopropanol > 10 ≤ 25 % w/w
NOTE FOR DISPOSAL	: Disposal should be in accordance with local, State or National requirements. For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: 0845 9333111.

14. TRANSPORT INFORMATION (International unless otherwise indicated)

<u>UN NUMBER</u> : UN1993	<u>UK HAZCHEM EAC</u> : 3Y	<u>ADR HIN</u> : 30
<u>UK CDGRoad Transport Category</u> : 3	<u>Tremcard Reference No.</u> : CEFIC TEC (R)- 30G35	<u>IMDG EMS</u> :3-07
<u>UK CDGCPL2 CARRIAGE</u> :		
CLASS :	3	
PROPER SHIPPING NAME :	Flammable liquid, N.O.S (contains isopropanol)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 kg.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Flammable liquid unless under limited quantity exemptions.	
<u>IMDG 2000 (SEA) CARRIAGE</u> :		
CLASS :	3	
PROPER SHIPPING NAME :	Flammable liquid, N.O.S (contains isopropanol)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 kg. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Flammable liquid unless carried under limited quantity exemptions.	
<u>ADR 2001 (ROAD) CARRIAGE</u> :		
CLASS :	3	
PROPER SHIPPING NAME :	Flammable liquid, N.O.S (contains isopropanol)	
PACKING GROUP :	III	
LIMITED QUANTITY EXEMPTIONS :	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 45 litres. Combination packs only.	
SPECIAL REQUIREMENTS :	Not required	
LABELS :	Flammable liquid unless carried under limited quantity exemptions.	

15. REGULATORY INFORMATION

INDICATION OF DANGER	HEALTH AND SAFETY INFORMATION (see also box 2)
NOT CLASSIFIED	
SAFETY PHRASES	: Not required.
ADDITIONAL PHRASES	: Safety data sheet available for professional user on request.
LEGISLATION :	This product is not classified, in the UK, under The Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 (CHIP 3), as dangerous for supply. This product is classified, in the UK, under the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles CDGCPL2 Regulations 1996, as dangerous for carriage.

16. OTHER INFORMATION and indication of revisions

The information given on this Safety Data Sheet (SDS) does not constitute an assessment in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations 1999.
Changes have been made to the content of boxes 2, 3, 8, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 01.

SDS No. 758

TECHNOGENE 2 - CHIP

PAGE: 4 of 4

Before using any product, ensure that you read and understand its label. The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.
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