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SAFETY DATA SHEET

International Standard

ISO 11014-1



F : Highly flammable



Xi : Irritant

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Neutral Solution for TS 15 and TS 18

Manufacturer : Interflux® Electronics NV

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

The neutral solution for TS 15 and TS 18 is a preparation.

Chemical nature

Components contributing to the hazard :

<u>Materials</u>	<u>CAS N°</u>	<u>% Range</u>		
1. 2-propanol	67-63-0	>99%	F; R11	Xi; R36 R67
2. Proprietary ingredients	/	<1%		

All other information is strict confidential and will only be given on request of a doctor or a medical department who is obligated to a total confidentiality.

3. HAZARDS IDENTIFICATION

Hazard designation : F highly flammable.

Xi irritant

Specific hazards for humans and environment

: R11: highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

Physical and chemical hazard :

- Instability : The product is stable.
- Incompatibility : Strong oxidising and reducing agents.
- Decomposition : None.
- Polymerisation : Will not occur.



4. FIRST-AID MEASURES

- Inhalation** : Bring the person into fresh air, if necessary provide oxygen mask to assist recovery.
Skin contact : Wash the affected area with soap and water. Remove contaminated clothing.
Eye contact : Flush with copious amounts of water for 15 minutes, call physician.
Ingestion : Wash out mouth with water. Do not induce vomiting, call physician.
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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : CO₂, water, dry chemicals, in case of a big fire use a jet of water or an alcohol-proof foam.
Protection of fire-fighters : A SCBA mask is recommended when entering the fire area.
Fire & explosion hazards : The product is classified as F inflammable. Keep away from sources of ignition.
Special protective equipment for a fire : Wear a respiratory mask.
Flash point (T.O.C.) : +13°C
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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Avoid eye contact. Sufficient ventilation should be provided.
Environmental precautions : Do not allow spill to spread to sewer or ground. Wash area thoroughly.
Methods for cleaning up : Scrape up spill. Wipe with rags. Dispose of waste rags in plastic container. Ensure spills are completely cleaned up since this product will dry by evaporation.
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7. HANDLING AND STORAGE

- Handling**
- Technical measures** : A good ventilation in the working area is recommended. Keep the container tightly closed. Store at 5°C - 30°C. Keep away from direct sunlight. Keep away from sources of ignition. Avoid prolonged breathing of vapours.
- Precautions for safe handling** : General ventilation should be provided.
- Storage**
- Technical measures** : Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Keep away from direct sunlight. No smoking. Neutral solution for TS 15 and TS 18 has a shelf life of minimum 1 year when stored in original containers at ambient temperatures.



In case of large quantities take precautions against electrostatical building.

Storage class	:	LGK 3A
VbF-class	:	B
Storage conditions	:	Please refer to the above section "Technical Measures".
Incompatibility of the product	:	Not applicable.
Safe packaging materials	:	Recommended by manufacturer, do not use aluminium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	:	Refer to section 7.
Control parameters	:	Threshold limit values (MAC)
Neutral solution for TS 15 and TS 18 :		TLV-TWA: 400 ppm (980 mg/m ³)

Personal protective equipment

Special instructions for protection and hygiene :Industrial hygiene is always recommended. Wash the hands with water and soap after working.

Respiratory protection	:	None required if adequate ventilation is present.
Hand protection	:	Protective gloves, preferable in rubber.
Eye protection	:	Use safety glasses.
Skin and body protection	:	Some degreasing of the skin may appear after contact. Additional protection equipment is normally not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Colour	:	Colourless
Odour	:	Aliphatic alcohol

pH	:	5 – 5.5
Boiling point/range	:	82 °C
Flash Point (T.O.C)	:	+ 13 °C
Autoignition	:	460°C
Melting point	:	-88.5°C
Explosion Limits in air	upper:	12 %
	lower:	2 %
Relative Density	:	0.784-0.785 g/ml
Solubility in water	:	Soluble
Viscosity 20°C	:	2.43 mPa.s
Evaporation rate (Ether = 1)	:	11



10. STABILITY AND REACTIVITY

Stability	:	Stable
Hazardous reactions	:	Not applicable.
Conditions to avoid	:	Excessive heat, temperatures above 30 °C.
Materials to avoid	:	May react with oxidising & reducing agents.
Hazardous decomposition products	:	Smoke and carbon monoxide from burning.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Interflux® Neutral Solution for TS 15 and TS 18 is a non-corrosive and non-toxic product.

Other information on health effects:

Proprietary ingredient(s)

Risk effects on humans

- Inhalation : With adequate ventilation, no problems will occur.
Skin contact : Can give a slight irritation.
Eye contact : Splashes in the eyes cause irritation. Symptoms : pain, redness.

Risk effect on animals

- Acute oral : LD50 (Rat) 5.84 ml/kg
Dermal : LD50 (Rabbits) 16.4 ml/kg
Inhalation : LC50 (Rat) 12000 ppm after 8 h. exposure

Chronic health effects : Not established.

12. ECOLOGICAL INFORMATION

General information : WGK 1, weakly water pollutant, slowly biodegradable.

13. DISPOSAL CONSIDERATIONS

Product : Recommendation : Must be disposed as a chemical disposal. The disposal must be carried out according to the Federal State and Local Regulations.

Packaging : Recommendation : Disposal must be done according to official regulations.



14. TRANSPORT INFORMATION

International regulations

Land transport:

- Rail / road (RID/ADR): ADR name : UN 1219 Isopropanol (Isopropyl alcohol), 3, II.
 ADR division :3, II
 Hazard Label(s) :3
 Danger number :33
 Substance Ident. Number (UN number) :1219

Sea transport (IMO/IMDG): Proper Shipping Name : UN 1219 Isopropanol (Isopropyl alcohol),
 class 3, PG II, (+13°C)
 Class :3
 Hazard Label(s) :3
 UN number :1219
 Packaging Group :II
 EmS number :F-E, S-D

Air transport (ICAO/IATA): UN number :1219
 Proper Shipping Name : Isopropanol
 Class :3
 Hazard Label(s) :Flammable Liquid
 Packaging Group :II

Additional rules to be obtained at Interflux® Electronics NV

Remark:

Above mentioned regulations are in force at the moment of publication of this safety data sheet. With reference to possible modifications in transport regulations of dangerous goods, we advise you to verify its validity at Interflux® Electronics NV.

15. REGULATORY INFORMATION

Information on the warning label

F : highly flammable

R – sentences : R11 : Highly flammable.
 R36 : Irritating to eyes
 R67 : Vapours may cause drowsiness and dizziness

S – sentences : S7 : Keep container tightly closed
 S16 : Keep away from sources of ignition – No smoking.
 S24/25: Avoid contact with skin and eyes
 S26 : In case of contact with eyes, rinse immediately with plenty of water and
 seek medical advice.
 S43 : In case of fire use CO₂, dry chemicals and water.

Other Legal Regulations

German water pollution risk (WGK) : 1



Substances that affect the ozone layer : Small pollution risk of water environment.
Substances that affect the ozone layer are not present in this preparation and are not used for its production.

EINECS : All ingredients have been registered.

16. OTHER INFORMATION

Reason for changement : general revision according to EC legislation.

R – sentences: R36 : Irritating to eyes.

R67 : Vapours may cause drowsiness and dizziness.

S – sentences: S24/25 : Avoid contact with skin and eyes.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Product information in other European languages can be obtained at *Interflux® Electronics NV, 9042 Gent*. Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed are sold without such warranty, either expressed or implied.

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