

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074089942

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070430389 071258714 071277607 071278530 071281856 071281948 074090809 074090841 074093159 074093167

074093449

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**SECTION 1. IDENTIFICATION**

Substance name : Tubing Fluid Formula TF-24  
RMC#611024

**Manufacturer or supplier's details**

Company name of supplier : Ethicon Inc.

Address : PO Box 151 Route 22 West  
Somerville, NJ 08876  
US

Telephone : (877) 384-4266

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 1-800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Medical

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 2

Eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.

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P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Liquid  
Substance name : Tubing Fluid Formula TF-24

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
propan-2-ol	67-63-0	>= 70 - < 90

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.

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- If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Remove contact lenses.  
Consult a physician.
- If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : Severe eye irritation  
Drowsiness  
Dizziness  
Headache  
Nausea  
Vomiting  
stinging  
tearing  
Redness  
Swelling of tissue  
Blurred vision  
Irritating to nose, throat and respiratory tract
- Notes to physician : Treat symptomatically.  
Thermal burns: Flush with water immediately. While flushing,  
remove clothes which do not adhere to affected area. Call an  
ambulance. Continue flushing during transport to hospital.  
Keep victim under observation. Symptoms may be delayed.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Water mist  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Water spray jet
- Specific hazards during fire-fighting : Vapours may form explosive mixtures with air.  
Highly flammable  
Heating can release hazardous gases.
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
- Further information : In the event of fire, cool tanks with water spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.  
Do not breathe vapours or spray mist.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Do not use sparking tools.  
Keep away from open flames, hot surfaces and sources of ignition.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Should not be released into the environment.  
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material.  
Keep in properly labelled containers.  
Small spills: Gently cover the spill with an absorbent towel or pad.  
Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".  
Clean contaminated surface thoroughly.  
After cleaning, flush away traces with water.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat.  
Keep away from heat and sources of ignition.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Use only with adequate ventilation.  
Do not use sparking tools.  
Do not smoke.  
Use only in an area containing explosion proof equipment.  
Take precautionary measures against static discharges.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Avoid inhalation of vapour or mist.  
Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight.  
Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

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Keep away from heat and sources of ignition.  
 Take measures to prevent the build up of electrostatic charge.  
 Keep locked up.  
 Keep in an area equipped with sprinklers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
 In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.  
 If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
 No special precautions required.

**Hand protection**

**Remarks** : Impervious gloves

**Eye protection** : Safety glasses with side-shields  
 Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection** : Wear suitable protective clothing.

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Protective measures	: The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Odour Threshold	: No data available
pH	: 10.2 - 11.4
Melting point/range	: No data available
Boiling point/boiling range	: 81.11 °C
Flash point	: 17.8 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No information available.
Self-ignition	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0.818 - 0.821 (20 °C)
Density	: No data available
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.  
Conditions to avoid : To avoid thermal decomposition, do not overheat.  
Heat, flames and sparks.  
Incompatible materials : Acids  
Strong oxidizing agents  
Cyanides  
Acid chlorides  
Hazardous decomposition products : None known.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 4,186 mg/kg  
Method: Calculation method

**Components:****propan-2-ol:**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 - 5,045 mg/kg  
LD50 Oral (Rabbit): 6,410 mg/kg  
LD50 Oral (Mouse): 3,600 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l  
Test atmosphere: vapour  
LC50 (Mouse): 53 mg/l  
Test atmosphere: vapour



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Acute dermal toxicity : LD50 Dermal (Rabbit): 12,800 mg/kg

**Skin corrosion/irritation****Product:**

Remarks: Non persistent irritation

**Components:****propan-2-ol:**

Species: Rabbit

Method: Draize Test

Result: Mild skin irritation

**Serious eye damage/eye irritation****Product:**

Result: May cause eye irritation.

**Components:****propan-2-ol:**

Species: Rabbit

Result: Moderate eye irritation

Method: Draize Test

Result: Eye irritation

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure****Product:**

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Assessment: May cause drowsiness or dizziness.

**Components:****propan-2-ol:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
This product has no known ecotoxicological effects.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : In accordance with National, Federal, State and Local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations**

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## UNRTDG

UN number : UN 1219  
Proper shipping name : ISOPROPANOL Mixture  
(propan-2-ol)  
Class : 3  
Packing group : II  
Labels : 3

## IATA-DGR

UN/ID No. : UN 1219  
Proper shipping name : Isopropanol Mixture  
(propan-2-ol)  
Class : 3  
Packing group : II  
Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing instruction (EQ) : E2  
Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Remarks : This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of IATA DGR §2.6.10 are met.

## IMDG-Code

UN number : UN 1219  
Proper shipping name : ISOPROPANOL Mixture  
(propan-2-ol)  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no  
Remarks : This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 are met.

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations

### 49 CFR

UN/ID/NA number : UN 1219  
Proper shipping name : Isopropanol  
(propan-2-ol)  
Class : 3  
Packing group : II

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Labels	:	3
ERG Code	:	129
Marine pollutant	:	no
Remarks	:	This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of 49 CFR 173.4b are met.

## SECTION 15. REGULATORY INFORMATION

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

propan-2-ol	67-63-0	70 - 90 %
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### US State Regulations

#### Massachusetts Right To Know

propan-2-ol	67-63-0
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#### Pennsylvania Right To Know

propan-2-ol	67-63-0
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#### New York City Hazardous Substances

propan-2-ol	67-63-0
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**Other regulations** : Restricted to professional users.

This product is not subject to TSCA and TSCA 12(b) Export notification because Food, Drugs and cosmetic products are exempt.

### California List of Hazardous Substances

propan-2-ol	67-63-0
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### California Permissible Exposure Limits for Chemical Contaminants

propan-2-ol	67-63-0
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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely

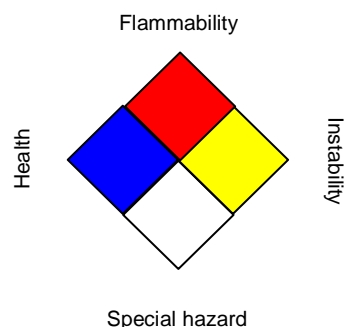
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Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## Further information

### NFPA:



### HMIS® IV:

HEALTH		
FLAMMABILITY		
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

This SDS received a major version update triggered by a periodical review of the totality of the content.

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## Date and Number Formats

This document uses the following notation for printing dates and numbers:

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<b>Date:</b>	Dec 31th, 2012	as	2012/12/31
<b>Numbers:</b>	123456,78	as	123,456.78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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