



1610 N 170 E Ave. Tulsa Oklahoma 74116  
 Tel: 918-439-4329 Fax: 918-439-4203  
 Toll-Free 1-888-834-2001  
 www.tomco-harwel.com; www.summitprochem.com



## Safety Data Sheet Deodorizer – Tutti Fruity

### 1. IDENTIFICATION

Synonyms none  
 CAS# see Part 3, below  
 Material Use deodorizer

**IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053**

### 2. HAZARD IDENTIFICATION

GHS Class (Category)	<i>flammable</i> (2)	<i>eye irritant</i> (2A)	<i>STOT</i> (3)	<i>aquatic, chronic</i> (3)
Signal Words	<b>DANGER</b>	<b>WARNING</b>	<b>WARNING</b>	<b>no Signal Word no Pictogram</b>
Hazard Statements	<i>highly flammable liquid &amp; vapor (H225)</i>	<i>causes serious eye irritation (H319)</i>	<i>may cause drowsiness or dizziness (H336)</i>	<i>harmful to aquatic life with long-lasting effects (H412)</i>



#### GHS Precautionary Statements for Labeling

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
 P240 Ground or bond container and receiving equipment.  
 P241 Use explosion-proof electrical, ventilating and lighting equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing vapors.  
 P262 Do not get in eyes, on skin or on clothing.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear eye protection and protective gloves of butyl, neoprene or nitrile.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P313 & P333 If skin irritation or rash occurs, get medical advice/attention.

### 3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m <sup>3</sup>	LD <sub>50</sub> (mg/kg) ORAL	LD <sub>50</sub> (mg/kg) SKIN	LC <sub>50</sub> ppm INHALATION
Isopropanol	67-63-0	10-30%	200 / 490	>4400	12,900	>5920
Nonylphenol Ethoxylate NP-9	9016-45-9	5-10%	not listed	>960	>2000	>1150mg/m <sup>3</sup>
Water	7732-18-5	50-70%	not toxic	90,000	not toxic	not toxic
Fragrance	*	5-10%	not listed	2242	1200	not known

\*NOTE: Fragrance manufacturers rarely, if ever, reveal their formula. We have used the hazard information (health, fire, environmental) in the supplier's MSDS to develop this document, but are unable to verify its accuracy independently.

**cont'd next page**

**PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.**



**EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**

#### 4. FIRST AID

- SKIN:** Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.
- EYES:** Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.
- INHALATION:** Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
- INGESTION:** Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

*NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.*

#### 5. FLAMMABILITY & FIRE-FIGHTING

- Flash Point** not known – approximately 30°C / 86°F (closed cup)
- Autoignition Temperature** above 399°C / 750°F
- Flammable Limits** 2.0% – 12%
- Combustion Products** carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments
- Firefighting Precautions** foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; firefighters must wear SCBA
- Static Discharge** cannot accumulate a static charge

#### 6. ACCIDENTAL RELEASE MEASURES

- Leak Precaution** dike to control spillage and prevent environmental contamination
- Handling Spill** recover free liquid with explosion-proof pumps; absorb residue on an inert sorbent, pick up using non-sparking plastic or aluminium shovel, & store in closed containers for disposal

#### 7. HANDLING & STORAGE

Store and use in a cool, dry environment, away from sources of ignition, heat and oxidizing agents. Take care to avoid sparks which may cause ignition. Empty containers may contain a flammable/explosive vapor.

Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.

#### 8. EXPOSURE CONTROL & PERSONAL PROTECTION

##### ***Isopropanol:***

Ontario TWAEV	200ppm / 490mg/m <sup>3</sup> ;	Ontario STEV	400ppm / 980mg/m <sup>3</sup>
ACGIH TLV	200ppm / 491mg/m <sup>3</sup>	ACGIH STEL	400ppm / 983mg/m <sup>3</sup>
OSHA PEL	400ppm / 980mg/m <sup>3</sup>	OSHA STEL	500ppm / 1225mg/m <sup>3</sup>

- Ventilation** mechanical ventilation is unlikely to be required to control airborne vapor or mist concentrations to regulated limits, unless there is a major spill in an enclosed area allowing vapor to accumulate
- Hands** butyl, neoprene or nitrile gloves recommended – *always confirm suitability with supplier*
- Eyes** safety glasses with side shields – *always protect eyes*
- Clothing** no special protective clothing required

**cont'd next page**

**PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.**



**EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Odor & Appearance	clear, thin, mobile liquid with a sweet, pleasant odor
Odor Threshold	40ppm – <i>isopropyl alcohol</i> ; <i>odor threshold for scent ingredient not known</i>
Vapor Pressure	less than 33mmHg / 4.4kPa (20°C/ 68°F)
Evaporation Rate ( <i>Butyl Acetate = 1</i> )	1.5 ( <i>for isopropyl alcohol</i> );
Vapor Density (air = 1)	2.1 ( <i>isopropanol</i> )
Boiling Point	above 82°C / 180°F
Freezing Point	not known – below -10°C / 14°F
Specific Gravity	0.956-0.965 (20/20°C)
Water Solubility	complete
Viscosity	not known – thin mobile liquid
pH	neutral

**10. REACTIVITY**

Dangerously Reactive With	strong oxidizing agents
Also Reactive With	none known
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	not known to decompose under normal conditions of use
Decomposition Products	none apart from Hazardous Combustion Products
Mechanical Impact	not sensitive

**11. TOXICITY INFORMATION****i. ACUTE EXPOSURE**

Skin Contact	slightly irritating
Skin Absorption	slight; toxic effects unlikely by this route
Eye Contact	liquid irritating; vapor irritating above 400ppm; 800ppm considered highly unpleasant
Inhalation	400ppm mildly irritating; 800ppm very unpleasant; headache, dizziness, drowsiness, intoxication and lack of co-ordination
Ingestion	headache, dizziness, drowsiness, intoxication and lack of co-ordination
Calculated LD <sub>50</sub> (oral)	6650mg/kg (rat)
Calculated LD <sub>50</sub> (skin)	20.250mg/kg (rabbit)
Calc. LC <sub>50</sub> (inhalation)	>20,000ppm (rat)

**ii. CHRONIC EXPOSURE**

General	prolonged or repeated exposure may cause dermatitis through removal of protective skin oils <i>no adverse systemic effects expected following industrial exposure</i>
Sensitizing	a fragrance component may be a skin sensitizer; <i>tested for cosmetics where long-term skin contact is expected; probably not relevant in this deodorizer application</i>
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans; fetotoxic in animals <i>at doses also causing maternal toxicity and not relevant to industrial exposure</i>
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

**cont'd next page****PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.****EMERGENCY INFORMATION:      INFOTRAC 1-800-535-5053**

## 12. ECOLOGICAL INFORMATION

### Isopropyl Alcohol:

Bioaccumulation	low potential for bioaccumulation
Biodegradation	biodegrades readily & rapidly: aerobic – >75% in 28days; anaerobic – >65% in 20days
Abiotic Degradation	reacts with atmospheric hydroxyl (OH) radicals; estimated ½-life in air 3.2 days
Mobility in soil, water	water soluble; moves readily through soil and the water column
<b>Aquatic Toxicity</b>	
LC <sub>50</sub> (Fish, 96)	9640, 10,400 & 11,130mg/litre (Pimephelas promelas), 4200mg/litre (Rasbora heteromorpha)
LC <sub>50</sub> (Crustacea, 48)	1100 & 1400mg/l (Crangon crangon), 13,300mg/litre (Daphnia magna)
EC <sub>50</sub> (Algae, 96hr)	1000mg/l (Scenedesmus subspicatus)
LC <sub>50</sub> (Bacteria)	1050 & 5175mg/l (Pseudomonas putida), 41,676mg/litre (“activated sludge, domestic sewage”), 39,540 & 112,000mg/litre (activated sewage sludge), 35,000 & 42,000mg/litre (Photobacterium phosphoreum) & others

### Nonylphenol Ethoxylate NP-9

Bioaccumulation	not a bioaccumulator, but biodegradation products (nonylphenol with one, two, or no ethylene oxide) bioaccumulate & mimic hormones, causing sexual dysfunction in shore birds, amphibians & fish <u>at very low doses</u>
Biodegradation	degrades readily but slowly in unacclimated waters, rapidly in acclimated waters, in the presence of oxygen; ½-life between 3-69days depending on temperature, chain length, & other conditions; <u>biodegradation may be incomplete, leaving nonylphenol, mono- and di-ethoxylates which have biological activity</u> (The structural formula of branched nonylphenol (unethoxylated) bears a close resemblance to 17β-oestradiol <sup>3</sup> – a potent oestrogen.) (see NOTE below)
Abiotic Degradation	not known – aromatic ring should be susceptible to photolysis
Mobility in soil, water	somewhat water soluble; mobile in soil and water
<b>Aquatic Toxicity</b>	
<i>data below for nonylphenol ethoxylates with various degrees of ethoxylation</i>	
LC <sub>50</sub> (Fish, 96hr)	3.8-7.7mg/l (Pimephales promelas), 16.4mg/litre (Poecilia reticulata – 48hr)
LC <sub>50</sub> (Crustacea, 48hr)	9.3-21.4mg/l (Daphnia magna), 20.9mg/litre (Gammarus pulex)
EC <sub>50</sub> (Algae)	17mg/litre (Scenedesmus quadricauda), 15mg/litre (Lemna minor)
EC <sub>50</sub> (Bacteria)	>1000mg/litre (various bacteria)

**Cinnamon Fragrance:** *no environmental data or composition data provided by the manufacturer*

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal	<b>do not flush to sewer;</b> may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration; may be landfilled if local regulations permit
Containers	<b>Drums</b> should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. <b>Pails</b> must be vented and thoroughly dried prior to crushing and recycling. <b>IBCs</b> (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years. <b>Warning: never cut, drill, weld or grind on or near this container, even if empty.</b>

## 14. TRANSPORT INFORMATION

### USA 49 CFR & Canada/International TDG

Product Identification Number	UN – 1993
Shipping Name	Flammable liquids, N.O.S. (isopropanol)
Classification	Class 3; Packing Group III
<b>Marine Pollution</b>	<i>not a marine pollutant</i>
<b>ERAP Required</b>	<i>No</i>



**PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.**



**EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**

## 15. REGULATIONS

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory

### *U.S.A. Regulations:*

#### **Isopropyl Alcohol:**

**Immediately Dangerous to Life or Health:** 2000 ppm (Based on 10% of the lower explosive limit for safety considerations even though the relevant toxicological data indicated that irreversible health effects or impairment of escape existed only at higher concentrations.)

**Allowable Tolerances:** Unless specifically excluded, residues resulting from the use of the following substances as either an inert or an active ingredient in a pesticide chemical formulation, including antimicrobial pesticide chemicals, are exempted from the requirement of a tolerance under FFDCA section 408, if such use is in accordance with good agricultural or manufacturing practices. 2-Propanol is included on this list.

**OSHA Standards:** Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 400ppm (980mg/m<sup>3</sup>). Vacated 1989 OSHA PEL TWA 400ppm (980mg/m<sup>3</sup>); STEL 500ppm (1225mg/m<sup>3</sup>) is still enforced in some states.

**NIOSH Recommendations:** Recommended Exposure Limit: 10 Hour Time-Weighted Average: 400ppm (980mg/m<sup>3</sup>). Recommended Exposure Limit: 15 Minute Short-Term Exposure Limit: 500ppm (1225mg/m<sup>3</sup>).

**Threshold Limit Values:** 8 hr Time Weighted Avg (TWA): 200 ppm; 15 min Short Term Exposure Limit (STEL): 400 ppm A4; Not classifiable as a human carcinogen. Biological Exposure Index (BEI): Determinant: acetone in urine; Sampling Time: end of shift at end of workweek; BEI: 40 mg/L. The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect interpretation of the result. Such background concentrations are incorporated in the BEI value. The determinant is nonspecific, since it is also observed after exposure to other chemicals.

**Atmospheric Standards:** This action promulgates standards of performance for equipment leaks of Volatile Organic Compounds (VOC) in the Synthetic Organic Chemical Manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non air quality health and environmental impact and energy requirements. Isopropanol is produced, as an intermediate or a final product, by process units covered under this subpart.

**State Drinking Water Guidelines:** Connecticut 2300 ug/l

#### ***Nonylphenol Ethoxylate NP-9***

**TSCA Requirements:** Section 8(a) of TSCA requires manufacturers of this chemical substance to report preliminary assessment information concerned with production, exposure, and use to EPA as cited in the preamble in 51 FR 41329.

#### **ENVIRONMENTAL NOTE for Nonylphenol Ethoxylate NP-9:**

*Several studies show that nonylphenol ethoxylates biodegrade completely<sup>1,2</sup> (to CO<sub>2</sub>), others believe a residue always remains<sup>3</sup>. Given the large amounts used, this small residue (estimated as 0.4% of the initial nonylphenol ethoxylate) may be enough (as hormone mimics) to cause the reproductive disruption which has been observed in some fish & shore birds. European authorities virtually banned the use of nonylphenol ethoxylates since January 2005<sup>4</sup>.*

(1) European Industry Comment: <http://www.cepad.eu/pospap/np-biodeg-final-12-99-a.pdf>

(2) Scholarly article: <http://pubs.acs.org/doi/abs/10.1021/es000127o>

(3) Master's Thesis University of Lund: [http://www.sysav.se/upload/ovrigt/Biodegradation\\_of\\_nonylphenol\\_ethoxylates.pdf](http://www.sysav.se/upload/ovrigt/Biodegradation_of_nonylphenol_ethoxylates.pdf)

*See Page 8 for a comparison between the structural formulae of nonylphenol & 17β-oestradiol.*

(4) European Commission Regulation (July 2008): <http://edexim.jrc.ec.europa.eu/searchChemical.php?einecs=500-024-6>

*On May 9, 2012, the USA EPA, through its "Design for the Environment" programme began to urge industry to replace nonylphenol ethoxylates with "safer alternatives". The Canadian government may well announce a similar programme.*

<http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/np-npe.html>

## 16. OTHER INFORMATION

**Date of Preparation** December 2014

**Date of Revision** -

Prepared for Tomco-Harwel, by **Peter Bursztyn**

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

***last page of SDS***

**PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.**



**EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053**