

MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: Ranclene

Manufacturer: Ransom & Randolph
Address: 3535 Briarfield Boulevard
Maumee, Ohio 43537, United States of America

Information Telephone Number: (419) 865-9497
Emergency Telephone Number: (419) 865-9497 (not available outside office hours)

Product Use: Cleaning and preparation of wax moulds

Date of Last Revision: 21 September 2009

Contact person at above address: Don Youel email: don.youel@dentsply.com

MSDS Number: R377

SECTION 2 HAZARDS IDENTIFICATION

Irritating to eyes.

CLASSIFICATION Xi;R36.

ENVIRONMENT: The product is not expected to be hazardous to the environment.

PHYSICAL AND CHEMICAL HAZARDS: When handled correctly, undamaged units represent no danger.

HUMAN HEALTH: Splashes in the eyes may cause redness and irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Name	CAS No. / EC No.	Percent (by wt)	Classification Health class & risk No.
Aliphatic Hydrocarbon	64742-47-8 / 265-149-8	5-10	Xn R65 R66
Glycol ether	5131-66-8/ 225-878-4	10-30	Xi R36/38
Orange Terpenes	8028-48-6 / 232-433-8	10-30	Xn R65 R10
Fatty Alcohol Ethoxylate	Proprietary	1-5	Xn R22, Xi R41
Fatty Alcohol Ethoxylate	Proprietary	1-5	Xi R41
Isopropyl Amine Alkyl Benzene Sulphonate	68584-24-7 / 271-531-5	1-5	Xn R22, Xi; R38, R41

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Proprietary Blend of Citrus Oils and Surfactants

SECTION 4 FIRST AID MEASURES

GENERAL INFORMATION

Get medical attention if any discomfort continues.

NOTES TO THE PHYSICIAN

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in

doubt, GET MEDICAL ATTENTION PROMPTLY!

INHALATION

Move into fresh air and keep at rest.

INGESTION

Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists:

Continue flushing during transport to hospital. Bring these instructions.

SECTION 5 FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Ventilate closed spaces before entering them.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

By heating and fire, irritating vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid contact with eyes and prolonged skin contact. In case of spills, beware of slippery floors and surfaces.

ENVIRONMENTAL PRECAUTIONS

Do not discharge onto the ground or into water courses.

SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water.

SECTION 7 HANDLING AND STORAGE

Follow instructions and ensure correct dilution of this product before use.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Chemical storage.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:

Orange Terpene	800 mg/m ³ TWA
Aliphatic Hydrocarbon	1000 mg/m ³ TWA

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

No particular ventilation requirements.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Clear, yellowish liquid

COLOUR Yellow

ODOUR Pleasant, agreeable.

PHYSICAL DATA COMMENTS Information given concerns the concentrated solution.

VOLATILITY DESCRIPTION Volatile.

SOLUBILITY Soluble in water

PHYSICAL DATA COMMENTS Information given concerns the concentrated solution.

BOILING POINT (°C) 94-194 MELTING POINT (°C) -5

RELATIVE DENSITY 0.94 pH-VALUE, CONC. SOLUTION 5-7

FLASH POINT (°C) N/A

SECTION 10 STABILITY AND REACTIVITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with strong oxidisers.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO₂) are formed.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

No data recorded.

GENERAL INFORMATION

This product has low toxicity. Only large volumes may have adverse impact on human health.

INHALATION

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

INGESTION

Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

This product has low toxicity. Only large volumes may have adverse impact on human health.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

ROUTE OF ENTRY

Skin and/or eye contact.

TARGET ORGANS

No specific target organs noted.

MEDICAL SYMPTOMS

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

MEDICAL CONSIDERATIONS

Pre-existing eye problems.

SPECIFIC EFFECTS

Risk of long-term effects is considered to be minimal when exposed to levels below the Workplace Exposure Level.

SECTION 12 ECOLOGICAL INFORMATION

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MOBILITY

The product is soluble in water.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

The product is biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

WATER HAZARD CLASSIFICATION

WGK 1

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of product and packaging in accordance with national, state, and local regulations

SECTION 14 TRANSPORT INFORMATION

Road/Rail transport - DOT (USA) Shipping Name: Not Regulated

DOT Hazard Class: N/A

UN Number: N/A

DOT Labels Required (49CFR172.101): N/A

Air transport - IATA Shipping Name: Not Regulated

IATA Hazard Class: N/A

UN Number: N/A

IATA Hazard Labels Required: N/A

Sea transport - IMDG Shipping Name: Not Regulated

IMDG Class: N/A

UN Number: N/A

IMDG Label: N/A

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID). Tariff Code 3402 9010

SECTION 15 REGULATORY INFORMATION

LABELLING



Irritant

R36 Irritating to eyes.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labeling of Substances and Preparations Dangerous for Supply.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

SECTION 16 OTHER INFORMATION

RISK PHRASES IN FULL

R10 Flammable.

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.