

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **IMMOIL-F30CC**
Product Use: Microscopes-Immersion Liquids for Light Microscopy
Restriction of Use in NZ: Refer to Section 15

NEW ZEALAND SUPPLIER: Evident Australia Pty Ltd
Address: Level 3, Building 10, 666 Great South Road, Ellerslie, Auckland 1051 New Zealand
Telephone: 0800 888 718

Emergency Tel: 0800 764 766 (National Poison Centre)

Manufacturer: Evident Corporation
6666 Inatomi, Tatsuno-machi, Kamiina-gun, Nagano
399-0495, Japan
Tel: +81-266-41-4140

Date of SDS Preparation: 1 Jan 2023

Section 2. Hazards Identification

Classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Laboratory chemicals and reagent kits – HSR002596

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – single exposure Cat. 2	H371	May cause damage to organs.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.

P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Benzene, 1,2-dimethyl-4-(1-phenylethyl)-	13.0	6196-95-8
Benzene, 2,4-dimethyl-1-(1-phenylethyl)-	11.0	6165-52-2
Benzene, 1,4-dimethyl-2-(1-phenylethyl)-	6.0	6165-51-1
Benzene, ethyl(phenylethyl)-	5.0	64800-83-5
Non-hazardous chemicals	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
If Swallowed	If contents swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
If Inhaled	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation:	May cause irritation to the respiratory tract.
Skin:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
Eye:	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Chronic:	May cause damage to organs through prolonged or repeated exposure.

Notes to Doctor: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Products of combustion may include, and are not limited to: oxides of carbon.
Suitable Extinguishing media	Foam. Carbon dioxide (CO ₂). Dry chemical powder. Do not use a solid water stream as it may scatter and spread fire.
Precautions for firefighters and special protective clothing	Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Keep upwind of fire. Cool closed containers exposed to fire with water spray. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Personal precautions:

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Provide ventilation. Spilled material may present a slipping hazard.

Environmental precautions:

Prevent entry to sewers and public waters.

Spill and Disposal procedures:

Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Never return spills in original containers for possible later re-use. Do not flush into surface water or sewer system. Dispose of waste safely, according to local Council regulations as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Spilled material may present a slipping hazard.
- Avoid contact with skin and eyes.
- Do not swallow.
- Handle and open container with care.
- When using do not eat, drink or smoke.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of the reach of children.
- Store locked up.
- Keep container tightly closed.
- Store in a dry, cool and well-ventilated place.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working

day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Personal Protection Equipment



Eyes	Safety glasses or goggles are recommended when using product.
Skin	Wear suitable gloves resistant to chemical penetration.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
General	Avoid release to the environment. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Colourless
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	<200°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	134°C (Cleveland open Cup)
Flammability	Not Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density (air=1)	≤ 1.0
Relative Density	0.9169@ 15°C
Water Solubility	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Heat. Incompatible materials.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	May include, and are not limited to: oxides of carbon.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	May cause damage to organs.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Information on ingredient (1,4-Dimethyl-2-(1-phenylethyl) benzene):

Germ cell mutagenicity: (*in vitro*) Negatives in an Ames and a chromosome aberration studies.

Reproductive toxicity: No teratogenic effects were observed in an animal study.

STOT-single exposure: Decreased body weight gain in 1,000 mg/kg or higher dose levels, and effects on kidneys in 2,000 mg/kg or higher dose levels were observed in a rat single dose oral study.

STOT-repeated exposure: Effects on adrenal and liver were observed in combined repeated dose toxicity study with the reproduction/developmental toxicity screening test (oral dose studies with adult rats).

LOAEL = 12.5 mg/kg/day (male)

LOAEL = 200 mg/kg/day (female)

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Information on ingredients (1,4-Dimethyl-2-(1-phenylethyl) benzene):

Acute toxicity: Crustacea (*Daphnia magna*) 48-hr EC50 = 0.39 mg/L

Do not allow to enter waterways.

Section 13. Disposal Considerations**Disposal Method:**

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Recycle empty containers where allowed.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzene, 1,2-dimethyl-4-(1-phenylethyl)- ; Benzene, 1,4-dimethyl-2-(1-phenylethyl)-)
Marine Pollutant	No
Special Provisions	If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: **Laboratory chemicals and reagent kits – HSR002596**

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Issue Date: 5 July 2022 Review Date: 5th July 2027