

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : IMWITOR® 375
Chemical name : Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts
CAS-No. : 91744-23-9

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial use
Raw material
Cosmetic products
Emulsifier
Manufacturing of food
Recommended use : Industrial use, Raw material, Cosmetic products, Emulsifier, Manufacturing of food

1.3. Supplier

Manufacturer/Supplier

IOI Oleo GmbH
Arthur-Imhausen-Str. 92
Witten, D-58453
Germany
T +49 40 280031-0

Email competent person

MSDS@ioioleo.de

Importer

Acidchem (USA) Inc.
201 West Passaic Street, Suite 100
Rochelle Park, NJ 07662
USA

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)
Poison control (USA) 1-800-222-1222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

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according to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : UVCB

Name	Product identifier	%	GHS US classification
Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (Main constituent)	CAS-No.: 91744-23-9	-	Not classified

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If symptoms persist, call a physician. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
First-aid measures after skin contact	: Get medical advice if skin irritation persists. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: Rinse thoroughly and plentifully with water, also under the eyelids. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth. Do not give an unconscious person anything to drink. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : No additional information available.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes are released. Carbon monoxide. Carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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Other information : Spilled material may present a slipping hazard. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.
Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Concerning personal protective equipment to use, see section 8. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid sub-soil penetration.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, saw dust. Clean using water and a detergent.
Other information : Shovel into suitable and closed container for disposal. Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Store tightly closed in a dry and cool place. Store in original container. Keep away from sources of ignition. Keep away from heat and direct sunlight.
Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Use splash goggles when eye contact due to splashing is possible. EN 166

Skin and body protection:

Wear suitable protective clothing. EN ISO 13688. EN 13034

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Filter A (colour code: brown). Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

Other information:

Wash hands before breaks and after work. Apply emollient cream. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothes. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Color	: Yellow-brown
Odor	: characteristic
Odor threshold	: No data available
pH	: 5 – 7 (Dispersion)
Melting point	: 0 – 5 °C (1013 hPa)
Freezing point	: No data available
Boiling point	: > 170 °C (1014 mBar)
Flash point	: 239.5 °C (1013 hPa)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable Not self-igniting.
Vapor pressure	: No data available
Vapor pressure at 50 °C	: ≤ 507 Pa
Relative vapor density at 20 °C	: No data available
Relative density	: 1.035 (20 °C)
Solubility	: Water: mg/l Dispersible
Partition coefficient n-octanol/water (Log Pow)	: 14.98 (QSAR, 25 °C, pH 7)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Non oxidizing material.

9.2. Other information

Other properties	: No additional information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. All heat sources, including direct sunlight.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)

LD50 oral rat	> 2000 mg/kg body weight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402 method)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5 – 7 (Dispersion)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5 – 7 (Dispersion)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Not applicable)

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Viscosity, kinematic : No data available
Symptoms/effects : No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)	
LC50 - Fish [1]	> 100 mg/l (96 h; Brachydanio rerio; (OECD 203 method))
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, OECD 202)
NOEC chronic algae	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, OECD 201)

12.2. Persistence and degradability

Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)	
Persistence and degradability	Readily biodegradable, failing 10-d window.
Biodegradation	68 % (28 d; (OECD 301D method))

12.3. Bioaccumulative potential

Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)	
Partition coefficient n-octanol/water (Log Pow)	14.98 (QSAR, 25 °C, pH 7)
Bioaccumulative potential	No additional information available.

12.4. Mobility in soil

Glycerides, C16-18 and C18-unsatd. mono-, di- and tri-, citrates, potassium salts (91744-23-9)	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations : Do not re-use empty containers without proper cleaning or reconditioning.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

according to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200

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Revision date : 08/03/2022
Data sources : Information provided by the manufacturer. European Chemicals Agency, <http://echa.europa.eu/>.
Department issuing data specification sheet: : KFT Chemieservice GmbH
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D-64347 Griesheim

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Other information : Version/s 1.03 - 2.00 is/are not available in this language.

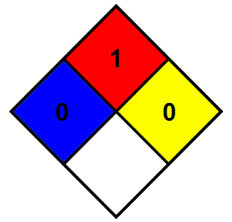
Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS	Chemical Abstract Service
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IARC	International Agency for Research on Cancer
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
STP	Sewage treatment plant
TLM	Median Tolerance Limit

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NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Indication of changes:

General revision.

KFT SDS US 06

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.