

Safety Data Sheet

Mocal

Date: 08/15/18

Winsol Laboratories encourages and expects users to read and understand the entire SDS, as well as the product label, as there is important information throughout these documents. It is expected that users follow the precautions identified in this document unless circumstances or conditions require other appropriate methods or actions.

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME: Mocal
PRODUCT CODE: 3029
SYNONYMS: Product is a mixture: No synonyms are available.
PRODUCT USE: Mal order counteractant with lemon fragrance

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: Odor encapsulator
USES ADVISED AGAINST:..... Use only as stated on label

SUPPLIER:..... **WINSOL LABORATORIES INC.**
SUPPLIER'S ADDRESS: 1417 NW 51ST ST. Seattle, WA 98107 (206) 782-5500
EMERGENCY RESPONSE NUMBER: INFOTRAC 800-535-5053 (North America), 1 352-323-3500 (International)

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION: Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 3
Health, Serious Eye Damage/Eye Irritation, 2 A
Environmental, Hazards to the aquatic environment - Acute, 3
Environmental, Hazards to the aquatic environment - Chronic, 4

LABEL ELEMENTS: The product is classified and labeled according to the Globally Harmonized System (GHS)

HAZARD PICTOGRAMS:



SIGNAL WORD: WARNING

HEALTH HAZARD STATEMENT: H303 May be harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life
H413 May cause long-lasting harmful effects to aquatic life

Safety Data Sheet

Mocal

Date: 08/15/18

PRECAUTIONARY STATEMENTS: ... P102 Keep out of reach of children.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.
 P301 + P312 **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.
 P302 + P352 **IF ON SKIN:** Wash with plenty of soap and water.
 P305 + P351 + P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 **IF exposed or concerned:** Get medical advice/attention.
 P330 Rinse mouth.
 P332 + P313 if skin irritation occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash before reuse.
 P401 Store in a cool dry place.
 P501 Dispose of contents/container in accordance with current legislation.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: ... Mixtures
DESCRIPTION: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	Trade Secret
Alcohols, C12-14, ethoxylated	20-30	68439-50-9	*
d-Limonene	1-5	5989-27-5	*
dl-Limonene (racemic)	1-5	138-86-3	*
Citral	.5-2	5392-40-5	*
Balance of ingredients non hazardous	balance		*

*The exact percentage (or concentration) of ingredients has been withheld as a trade secret.
 Composition Comments: Components and trace elements not listed are either non-hazardous or are below reportable limits.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT:..... Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention if irritation persists.

SKIN CONTACT:..... Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower.

SWALLOWING (INGESTION):..... Rinse mouth. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.

Safety Data Sheet

Mocal

Date: 08/15/18

INHALATION: Usually not an area of concern however if person has difficulty breathing then seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

INGESTION: Gastrointestinal irritation.
INHALATION: Repeated and/or prolonged exposure, without adequate protection, to vapors or mists of the product may cause irritation of the nose, throat and respiratory tract.
SKIN: Mild irritant.
EYES: May cause moderate to severe irritation.

INFORMATION FOR DOCTOR: There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient. In case of eye contact it is possible that the victim would not notice the eye injury.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: In case of fire, use: Alcohol resistant foam. Water spray. Carbon dioxide (CO₂). Dry chemical powder.

SPECIFIC HAZARDS: Product is not flammable. In case of combustion it may generate carbon monoxide, besides CO₂.

SPECIAL PROTECTIVE EQUIPMENT

AND PRECAUTIONS FOR FIRE FIGHTERS: Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

UNUSUAL FIRE AND

EXPLOSION HAZARDS: No further relevant information is available.

NFPA Rating:

Health: 0
Flammability: 1
Instability: 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT

AND EMERGENCY PROCEDURES: ..Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

ENVIRONMENTAL PRECAUTIONS:..Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

Safety Data Sheet

Mocal

Date: 08/15/18

METHODS AND MATERIALS FOR

CONTAINMENT AND CLEAN UP: ... Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use in well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If accidental contact occurs, exposed area should be washed immediately. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE: Store in covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use.

INCOMPATIBILITIES:..... Avoid contact with: Strong oxidizing agents and bases.

PACKAGING MATERIAL: Recommended: Stainless steel. Coated steel. High density polyethylene. Low density polyethylene. Polyvinyl chloride (PVC).

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION (based on 100% raw materials)

TLV (THRESHOLD LIMIT VALUE): ... The TLV in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

Product contains trace elements:

COMPONENT	(USA)	TLV-TWA (ACGIH)	PEL-TWA (OSHA)	TLV-STEL (ACGIH)
1,4-Dioxane (trace elements)		20 ppm; 72 mg/m ³ (Skin).	100 ppm; 360 mg/m ³ (Skin).	Not Established
Ethylene oxide (trace elements)		1 ppm; 1.8 mg/m ³ .	1 ppm.	Not Established

ODOR THRESHOLD:..... Not available.

IDLH: 1,4-Dioxane: 500 ppm.
Ethylene oxide: 800 ppm.

BIOLOGICAL EXPOSURE INDICES

(ACGIH): Not available.

ENGINEERING CONTROL

MEASURES: In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).

INDIVIDUAL PROTECTION MEASURES:

EYE PROTECTION:..... Side shields or wide vision safety goggles.

SKIN PROTECTION:..... PVC apron. It is recommended to adopt safety boots/shoes.

HAND PROTECTION:..... Gloves made of: Rubber. PVC (Polyvinyl chloride).

RESPIRATORY PROTECTION: In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

Safety Data Sheet

Mocal

Date: 08/15/18

VENTILATION: Ensure adequate ventilation.
ADDITIONAL MEASURES: Emergency eyewash and safety shower facilities should be available in the immediate work area.
REQUIRED WORK/HYGIENE: Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid. Light yellow.
ODOR AND ODOR THRESHOLD: Lemon
pH: 5.5-6 (sol. 1%).
MELTING POINT/FREEZING POINT: 15°C (start of turbidity).
BOILING POINT: Not available.
FLASHPOINT: 210°C (open glass).
EVAPORATION RATE: Not available.
FLAMMABILITY (SOLID/GAS): Not applicable.
LOWER FLAMMABILITY LIMIT: Not available.
UPPER FLAMMABILITY LIMIT: Not available.
EXPLOSIVE LIMIT: Not available.
VAPOR PRESSURE: Not available.
VAPOR DENSITY (AIR=1): Not available.
RELATIVE DENSITY (WATER=1): 972 – 981 kg/ m³ (40°C).
APPARENT DENSITY: Not applicable.
SOLUBILITY: Soluble in water.
AUTO-IGNITION TEMPERATURE: ... Not available.
DECOMPOSITION TEMPERATURE: Not available.
VISCOSITY: Not available.

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use and storage.
REACTIVITY: No hazardous reactivity is expected.
HAZARDOUS REACTIONS: Not polymerize.
CONDITIONS TO AVOID: High temperatures, ignition sources and prolonged exposure to the air.
INCOMPATIBLE MATERIALS: Avoid contact with: Strong oxidizing agents and bases.
HAZARDOUS DECOMPOSITION PRODUCTS: In case of combustion it may generate carbon monoxide, besides CO₂.
CONSIDERATIONS ON THE USE OF THE PRODUCT: Not applicable.

SECTION 11 – TOXICOLOGICAL INFORMATION (based on 100% raw materials)

ACUTE TOXICITY:
ORAL: LD50, rat: 1 g/kg.
INHALATION: LC50, 4h, rat: >1.6 mg/ L.
DERMAL: LD50, rat: >2000 mg/kg.

Safety Data Sheet

Mocal

Date: 08/15/18

SKIN CORROSION/IRRITATION:..... Slight irritation (500 mg, 24H, rabbit).
SERIOUS EYE DAMAGE/
EYE IRRITATION: Severe irritant (100 mg, 24H rabbits).
RESPIRATORY OR SKIN
SENSITIZATION:..... Not a skin sensitizer to guinea pigs.
GERM CELL MUTAGENICITY: Negative in Ames test with and without metabolic activation.
CARCINOGENICITY: Not available.
REPRODUCTIVE TOXICITY:..... NOAEL, dermal, rat P, F1, F2 generations: > 250mg/kg/day (reprotoxicity and developmental toxicity).
SPECIFIC TARGET ORGAN TOXICITY
-SINGLE EXPOSURE :..... Not available.
SPECIFIC TARGET ORGAN TOXICITY
-REPEATED EXPOSURE :..... NOAEL, oral, 28d, rat: 1000 mg/kg/day (systemic effects).
..... NOAEL, dermal, 13 weeks, rat: 500 mg/kg/day (body weight).
ASPIRATION HAZARD:..... Not available.

SECTION 12 – ECOLOGICAL INFORMATION (based on 100% raw materials)

ECOTOXICITY:..... Fish – LC50, 96h, Cyprinus carpio: 1.4 mg/L (static).
Invertebrate – LC50, 48h, Daphnia magna: 6.46 mg/L.
Algae – NOEC: 0.31 mg/L (growth rate).
BIODEGRADABILITY: Readily biodegradable. 74% by BOD after 28 days.
BIOACCUMULATIVE POTENTIAL:... Bioconcentration potential in aquatic organisms is low.
MOBILITY IN SOIL:..... It is expected to have high mobility in soil.
OTHER ADVERSE EFFECTS: Water hazard class 2: Hazard to water.

SECTION 13 – DISPOSAL CONSIDERATIONS

PRODUCT: The preferred option for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state and local laws and regulations in accordance with the environmental agencies.
PRODUCT REMAINS: Same method as indicated for product.
PACKAGING: Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operations standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

Safety Data Sheet

Mocal

Date: 08/15/18

SECTION 14 – TRANSPORTATION INFORMATION

LAND TRANSPORT U.S. DOT:..... Product not classified as hazardous in accordance with U.S. DOT (United States Department of Transportation) – 49 CFR 172.101

PACKAGING TYPE:..... Bulk and non-bulk

PROPER SHIPPING NAME:..... Not classified.

HAZARD CLASS OR DIVISION:..... Not classified.

ID NUMBER:..... Not classified

PACKAGING GROUP:..... Not classified

REMARKS:..... Not classified

MARITIME TRANSPORT IMDG: Product not classified as hazardous in accordance with IMDG Code – 2012 Edition – IMO (International Maritime Organization).

UN NUMBER: Not classified

PROPER SHIPPING NAME:..... Not classified

PACKAGING GROUP:..... Not classified

EmS:..... Not classified

AIR TRANSPORT ICAO-TI and IATA-DGR:

Product not classified as hazardous in accordance with Dangerous Goods Regulations – 56th Edition – IATA (International Air Transport Association).

UN NUMBER: Not classified

PROPER SHIPPING NAME:..... Not classified

ICAO/IATA CLASS: Not classified

Label: Not classified

PACKAGING GROUP:..... Not classified

SECTION 15 – REGULATORY INFORMATION (based on 100% raw materials)

APPLICABLE STANDARDS: Dangerous Goods Regulations – 56th Edition – IATA (International Air Transport Association).

IMDG Code – 2012 Edition – IMO (International Maritime Organization).

U.S.A. Department of Transportation – DOT – 49 CFR 172.101

OSHA HAZARD COMMUNICATION

STANDARD:..... This product contains a “Hazardous Chemical” as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA TITLE III – SECTIONS 311/312

(40 CFR 370 SUBPARTS B AND C): . Immediate (Acute) Health Hazard: Yes.

Delayed (Chronic) Health Hazard: No.

Fire Hazard: No.

Reactive Hazard: No.

Sudden Release of Pressure Hazard: No.

SARA TITLE III – SECTION 313

(40 CFR 372.65): This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

Safety Data Sheet

Mocal

Date: 08/15/18

SARA TITLE III – SECTIONS 302

(40 CFR 355 APPENDIX A):..... Ethylene oxide (CAS 75-21-8): 1 ppm. TPQ: 1000 lbs.

CERCLA (40 CFR 302.4)/SARA 304: 1,4-Dioxane (CAS 123-91-1): 10 ppm. RQ: 100 lbs.
Ethylene oxide (CAS 75-21-8): 1 ppm. RQ: 10 lbs.
Reportable Quantity (RQ) of this product is 10,000,000 pounds based upon 1,4-Dioxane/Ethylene oxide which yielded the lowest resultant RQ according to the following formula : CERCLA ingredient RQ/ % of that ingredient in the product.

NEW JERSEY HAZARDOUS

SUBSTANCE LIST: 1,4-Dioxane: Substance# 0789 (Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3rd degree).
Ethylene oxide: Substance# 0882 (Special Health Hazard Code: CA – Carcinogen: MU – mutagen; TE – Teratogen; F4 – Flammable 4th degree; R3 – Reactive 3rd degree).

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC

ENFORCEMENT ACT) : WARNING! This product contains a chemical known in the State of California to cause cancer. – 1,4-Dioxane. – Ethylene oxide.
WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. – Ethylene oxide.

PENNSYLVANIA HAZARDOUS

SUBSTANCE LIST: 1,4-Dioxane (CAS 123-91-1) and Ethylene oxide (CAS 75-21-8) : Listed also as an environmental hazard and as a special hazardous substance.

INVENTORY STATUS:..... United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes
Canada – Domestic Substances List (DSL): Yes.
Canada – Non-Domestic Substances List (NDSL): No.
Australia – Australian Inventory of Chemical Substances (AICS): Yes.
China – Inventory of Existing Chemical Substances in China (IECSC): Yes.
Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No
Europe – European List of Notified Chemical Substances (ELINCS): No.
Japan – Inventory of Existing and New Chemical Substances (ENCS): Yes.
Korea – Existing Chemicals List (SCL): Yes.
New Zealand – New Zealand Inventory: Yes.
Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes
*a “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

SECTION 16 – OTHER INFORMATION

REFERENCES:.....The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Winsol Laboratories Inc. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

Safety Data Sheet

Mocal

Date: 08/15/18

ABBREVIATIONS AND ACRONYMS:

ACGIH:.....American Conference of Governmental Industrial Hygienists (USA).
BOD:.....Biochemical Oxygen Demand.
CAS:.....Chemical Abstracts Service (American Chemical Society – EUA).
GHS:Globally Harmonized System for Classification and Labelling of Chemicals.
IARC:.....International Agency for Research on Cancer.
IATA:.....International Air Transport Association.
IATA-DGR: .Dangerous Goods by Regulations by the IATA.
ICAO:International Civil Aviation Organization.
ICAO-TI:Technical Instructions by the ICAO.
IDLH:.....Immediately Dangerous to Life or Health Concentrations.
IMDG:International Maritime Code for Dangerous Goods.
Kow:Octanol/water partition coefficient.
LC:Lethal Concentration – substance concentration in the environment that leads to death after a certain period of exposure.
LC50:.....Lethal concentration for 50% of the test animals.
LD50:Lethal Dose for 50% of the test animals.
NIOSH:.....National Institute for Occupational Safety and Health.
NOAEL:No Observed Adverse Effect Level.
OSHA:Occupational Safety and Health Administration (EUA).
PEL-TWA:...Exposure Limit Allowed – time weighted average.
TLV-STEL:...Tolerance Limit – short period of time (15 minutes, maximum).
TLV-TWA: ..Tolerance Limit – time weighted average.
IMO:International Maritime Organization.

Winsol Laboratories urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's sole responsibility to ensure that the use/disposal of this product comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

DATE PREPARED:.....05/05/15

DATE REVISED:08/15/18

REVISIONS:Sections 1, 3, 9, 16