

SAFETY DATA SHEET

EXCELSIOR MF 940



Version 0.0 Revision Date: 02/06/2024 SDS Number: F000003066 Date of last issue: 05/23/2016
Date of first issue: 05/23/2016

SECTION 1. IDENTIFICATION

Product name : EXCELSIOR MF 940

Manufacturer or supplier's details

Company name of supplier : RHC
Address : 1602 N Union Street
Fostoria, OH 44830-1158
Telephone : (866) 353-9261
Emergency telephone : (CHEMTREC): (800) 424-9300 (CHEMTREC International):
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation

GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H320 Causes eye irritation.

Precautionary Statements : P102 Keep out of reach of children.
P103 Read label before use.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P332 + P313 If skin irritation occurs: Get medical attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

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Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 94 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 94 %

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
(2-methoxymethylethoxy)propanol	34590-94-8	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide (CO2)
ABC powder
Water mist
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Material can create slippery conditions.
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	100 ppm 600 mg/m ³	NIOSH REL
		ST	150 ppm 900 mg/m ³	NIOSH REL
		TWA	100 ppm 600 mg/m ³	OSHA Z-1
		TWA	100 ppm 600 mg/m ³	OSHA P0
		STEL	150 ppm 900 mg/m ³	OSHA P0

Engineering measures : Handle only in a place equipped with local exhaust (or other

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appropriate exhaust).
Maintain air concentrations below occupational exposure standards.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
Material : Impervious gloves
- Eye protection : Safety glasses
- Skin and body protection : Protective suit
- Protective measures : Avoid contact with skin.
When using do not eat, drink or smoke.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : General industrial hygiene practice.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : white, opaque
- Odor : characteristic
- pH : 7.5 - 8.5
- Melting point/range : No data available
- Boiling point/boiling range : 212 °F / 100 °C
- Flash point : Not applicable
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapor pressure : No data available
- Density : 1,010 - 1,020 kg/m³
- Solubility(ies)
Water solubility : completely soluble
- Solubility in other solvents : not determined
- Partition coefficient: n-octanol/water : No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
Conditions to avoid : No data available
Incompatible materials : Not applicable
Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 10.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Remarks: This information is not available.

Components:

(2-methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat): 5,180 - 5,400 mg/kg

LD50 (Rat): 5.35 g/kg

LD50 (Rat): > 5,000 mg/kg
GLP: no

Acute inhalation toxicity : LC50 (Rat): 661 ppm
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): >= 9,500 mg/kg

LD50 (Rabbit): > 19,020 mg/kg
GLP: no

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LD50 (Rabbit): \geq 9,500 mg/kg

LD50 (Rabbit): 9.5 g/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

(2-methoxymethylethoxy)propanol:

Exposure time : 1 - 5 d
Assessment : Not irritant
Method : in vivo
GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

(2-methoxymethylethoxy)propanol:

Species : Rabbit
Exposure time : 24 - 72 h
Assessment : Not irritant
Method : in vivo
GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

(2-methoxymethylethoxy)propanol:

Test Type : Skin sensitization:
Species : Human
Method : in vivo
Result : Non sensitising

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Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

(2-methoxymethylethoxy)propanol:

Species : Rabbit, male and female
NOAEL : > 400 ppm(m)
Application Route : Inhalation
Exposure time : 31 Weeks
GLP : no

Species : Rabbit, male
LOAEL : 4,750 mg/kg
Application Route : Dermal
Exposure time : 90 d

Species : Rat, male and female
LOAEL : 1,000 ppm(m)
Application Route : Oral
Exposure time : 4 Weeks
Method : Gavage

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Components:

(2-methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Fish): > 100 mg/l
LC50 (Pimephales promelas (fathead minnow)): > 10,000 mg/l
Exposure time: 96 h
Analytical monitoring: Analytical monitoring: no
Method: static test
GLP: No data available

Toxicity to daphnia and other aquatic invertebrates : LC50 (Crustaceans): > 100 mg/l
LC50 (Daphnia magna (Water flea)): 1,919 mg/l
Exposure time: 48 h
Analytical monitoring: Analytical monitoring: no data
Method: static test
GLP: no

LC50: > 1,000 mg/l
Exposure time: 96 h
Analytical monitoring: Analytical monitoring: no data

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOAEL (No observed adverse effect level) (Daphnia magna (Water flea)): ≥ 0.5 mg/l
Exposure time: 22 d
Analytical monitoring: Analytical monitoring: no data
Method: flow-through test

LOAEL (Lowest observed adverse effect level) (Daphnia magna (Water flea)): 0.5 mg/l
Exposure time: 22 d
Analytical monitoring: Analytical monitoring: no data
Method: flow-through test

Persistence and degradability

Components:

(2-methoxymethylethoxy)propanol:

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Biodegradability : Concentration: 400 mg/l
Biodegradation: 94 %
Exposure time: 13 d
GLP: no

Concentration: 79.5 mg/l
Biodegradation: 96 %

Concentration: 51 mg/l
Biodegradation: 10 %
Exposure time: 81 d
GLP: yes

Concentration: 79.5 mg/l
Biodegradation: 75 %

Biodegradation: 34 %
Exposure time: 28 d
GLP: yes

Biodegradation: 72.9 %
Exposure time: 28 d
GLP: yes

Concentration: 79.5 mg/l
Biodegradation: 76 %

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging : Clean container with water.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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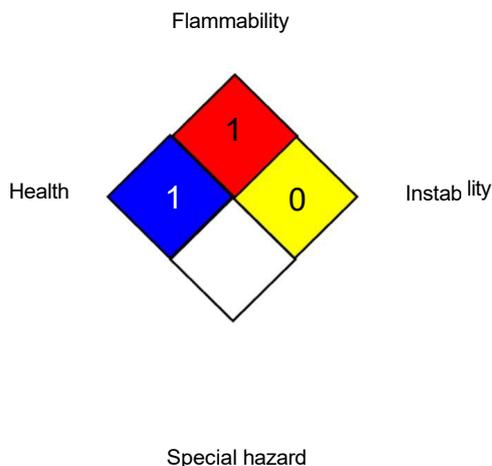
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	1
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population;

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LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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