Castorwax™ Hydrogenated Castor Oil

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 12/27/2022 Revision date: 4/21/2022 Supersedes: 4/13/2018 Version: 5.0

SECTION 1: Identification

1.1. Identification

Product form	:	Substance
Trade name	:	Castorwax™
CAS-No.	:	8001-78-3
Product code	:	RUC047
Formula	:	Unspecified
Other means of identification	:	Castorwax™ 50, Castorwax™ DS-270, Castorwax™ MP-70, Castorwax™ MP-80, Castorwax™ MP-80 LN, Castorwax™ NF

1.2. Recommended use and restrictions on use

Use of the substance/mixture	:	Grease Mixture Raw material Industrial applications
Restrictions on use	:	None

1.3. Supplier

Global Headquarters
Aurorium
201 North Illinois Street
Suite 1800
Indianapolis, IN, 46204
USA
T +1-317-247-8141
SDS@aurorium.com - www.aurorium.com

1.4. Emergency telephone number

Emergency number	:	Aurorium: +1-317-247-8141 CHEMTREC (USA): +1-800-424-9300 CHEMTREC (International):+1-703-527-3887

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

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : Castorwax™ Hydrogenated Castor Oil
CAS-No. : 8001-78-3

Name	Product identifier	%	GHS US classification
Castor Oil, Hydrogenated	CAS-No.: 8001-78-3	100	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 : No specific measures identified.
First-aid measures after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms:
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Rinse mouth. If you feel unwell, seek medical advice.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : None under normal use.
Symptoms/effects after eye contact : None under normal conditions. May cause minor eye irritation.
Symptoms/effects after ingestion : None under normal conditions.
Chronic symptoms : No chronic health hazards are likely for this material.

4.3. Immediate medical attention and special treatment, if necessary

Not required. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Water spray or fog.

5.2. Specific hazards arising from the chemical

Fire hazard : Not classified.
Hazardous decomposition products in case of fire : (Carbon oxides (CO, CO2).).

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate area.

6.1.2. For emergency responders

Emergency procedures : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the solid spill.
Methods for cleaning up : Shovel into suitable and closed container for disposal. Wash contaminated area with large amounts of water.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For waste disposal after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required. Avoid contact with eyes. Provide local exhaust or general room ventilation. Avoid creating or spreading dust.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry area.
Incompatible materials : Store away from strong oxidizers, strong bases, strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)

No additional information available

Castor Oil, Hydrogenated (8001-78-3)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves made of latex
Eye protection:
Safety glasses
Skin and body protection:
Impervious clothing
Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Thermal hazard protection:
Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Opaque. Waxy. Solid.
Color	:	almost colourless
Odor	:	characteristic
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	84 – 89 °C
Freezing point	:	No data available
Boiling point	:	> 300 °C
Flash point	:	204 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	0.97 g/cm³ 20 °C
Solubility	:	Insoluble in water. Water: < 0.1 g/l 20 °C
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	Not explosive.
Oxidizing properties	:	Not oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases.

10.6. Hazardous decomposition products

On combustion releases : (Carbon oxides (CO, CO2).).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)	
LD50 oral rat	> 10 g/kg

Castor Oil, Hydrogenated (8001-78-3)	
LD50 oral rat	> 20000 mg/kg body weight OECD 401
LD50 dermal rat	> 2000 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not listed (IARC, NTP, US OSHA)
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : None under normal use.
Symptoms/effects after eye contact : None under normal conditions. May cause minor eye irritation.
Symptoms/effects after ingestion : None under normal conditions.
Chronic symptoms : No chronic health hazards are likely for this material.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Castor Oil, Hydrogenated (8001-78-3)	
LC50 - Fish [1]	> 10000 mg/l Danio rerio (Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l ECHA
EC50 72h - Algae [1]	> 100 mg/l Desmodesmus subspicatus (Scenedesmus subspicatus)
ErC50 algae	> 0.01 mg/l ECHA
LOEC (chronic)	> 0.01 mg/l Daphnia magna
NOEC (chronic)	≥ 0.01 mg/l Daphnia magna

12.2. Persistence and degradability

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)	
Persistence and degradability	Readily biodegradable.

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12.3. Bioaccumulative potential

Castor Oil, Hydrogenated (8001-78-3)	
Partition coefficient n-octanol/water (Log Pow)	18.75 ECHA
Partition coefficient n-octanol/water (Log Kow)	> 5
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
Transport document description		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
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

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Castor Oil, Hydrogenated	8001-78-3	Present	Active	

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

CANADA

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)
Listed on the Canadian DSL (Domestic Substances List)

Castor Oil, Hydrogenated (8001-78-3)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Castor Oil, Hydrogenated (8001-78-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

CASTORWAX™ Hydrogenated Castor Oil (8001-78-3)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemical Inventory)

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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

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Revision date : 04/21/2022

Data sources : ECHA (European Chemicals Agency). Aurorium

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

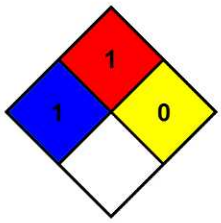
Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
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
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
ThOD	Theoretical oxygen demand (ThOD)
VOC	Volatile Organic Compounds

Abbreviations and acronyms	
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

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.



Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

Important Note: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.