

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/1/2023 Supersedes: 8/17/2018 Version: 5.0

SECTION 1: Identification

 Substance Surfactol[™] 365 Castor oil, ethoxylated 61791-12-6 Castor oil ethoxylate / Castor oil polyoxyethylene ether / Ethoxylated castor oil
use
: Surfactants
: Aurorium: +1-317-247-8141 CHEMTREC (USA): +1-800-424-9300 CHEMTREC (International): +1-703-527-3887
ure
rd Category 2H401Toxic to aquatic lifezard Category 1H410Very toxic to aquatic life with long lasting effects
ionary statements
 Warning H401 - Toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects P273 - Avoid release to the environment. P391 - Collect spillage. P501 - Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	:	Surfactol™ 365
CAS-No.	:	61791-12-6

Name	Product identifier	%	GHS US classification
Castor oil, ethoxylated	CAS-No.: 61791-12-6		Aquatic Acute 2, H401 Aquatic Chronic 1, H410

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 after inhalation	: If experiencing respiratory symptoms: Call a poison center or a doctor.	
First-aid measures after skin contact	: Wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. If you feel unwell, seek medical advice.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects	: May cause slight temporary irritation.	

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 Unsuitable extinguishing media	Water spray. Alcohol-resistant foam. Carbon dioxide. Dry powder.Do not use a water jet since it may cause the fire to spread.		
5.2. Specific hazards arising from the chemical			
Fire hazard	: This product is not classified as flammable or combustible. Could burn but does not ignite readily.		
Explosion hazard	: Product is not explosive.		
Hazardous decomposition products in case of fire	: Toxic fumes may be released. (Carbon oxides (CO, CO2).).		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions Protection during firefighting	 Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection. 		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective e	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods for cleaning up	: Ventilate spillage area. Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). 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 further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling]
Precautions for safe handling Hygiene measures	 Provide local exhaust or general room ventilation. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions Incompatible materials	 Store in a well-ventilated place. Keep container closed when not in use. Store away from strong oxidizers, strong bases, strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Castor oil, ethoxylated (61791-12-6)	
USA - OSHA - Occupational Exposure Limits	
Local name	Vegetable oil mist
OSHA PEL (TWA) [1]	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Monitoring methods		
Monitoring methods	Gravimetric analysis for total particulate and respirable fraction.	
9.2 Appropriate engineering controls		
8.2. Appropriate engineering controls		
Environmental exposure controls : ,	Avoid release to the environment.	
8.3. Individual protection measures/Personal p	protective equipment	
Hand protection:		
Protective gloves made of latex		
Eye protection:		
Safety glasses with side shields		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respirate	ory equipment	

Thermal hazard protection:

Not applicable.

SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	
Physical state Color	: Liquid : Pale yellow
Ddor	: Mild odor
Ddor threshold	: No data available
but threshold	: No data available
Aelting point	: No data available
Freezing point	: -7.76 °C (1013.25 hPa)
Boiling point	: 232.6 °C (96.96kPa)
Flash point	: 185 °C (1013.25 hPa)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
/apor pressure	: 0 Pa (25°C)
Relative vapor density at 20°C	: No data available
Particle size	: No data available in the literature
Relative density	: No data available
Density	: 0.979 g/cm³ (20°C)
Solubility	: Water: 24.11 mg/l (25°C)
Partition coefficient n-octanol/water (Log Pow)	: 4.297 (25°C)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
/iscosity, kinematic	: 252 mm²/s
/iscosity, dynamic	: 247 mPa·s
Explosion limits	: No data available
Explosive properties	: Not explosive.
Dxidizing properties	: Not oxidising.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reactions known under normal conditions of use.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong acids, strong bases and oxidation agents.	
10.6. Hazardous decomposition products	
(Carbon oxidos (CO, CO2))	

(Carbon oxides (CO, CO2).).

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal)	Not classified Not classified Not classified
Castor oil, ethoxylated (61791-12-6)	
LD50 oral	6500 mg/kg body weight mouse
LD50 dermal rat	> 2000 mg/kg body weight
ATE US (oral)	6500 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 classified. Not listed (IARC, NTP, US OSHA)
Reproductive toxicity :	Not classified
Castor oil, ethoxylated (61791-12-6)	
NOAEL (animal/male, F0/P)	10000 mg/kg
NOAEL (animal/female, F0/P)	10000 mg/kg
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Castor oil, ethoxylated (61791-12-6)		
NOAEL (oral,rat,90 days)	5000 mg/kg body weight	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: 252 mm²/s	
Symptoms/effects	: May cause slight temporary irritation.	

SECTION 12: Ecological information

12.1. Toxicity			
Ecology - general :	Very toxic to aquatic life with long lasting effects.		
Surfactol™ 365 (61791-12-6)			
LC50 - Fish [1]	> 7.33 mg/l Danio rerio		
EC50 - Crustacea [1]	> 25 mg/l Daphnia magna (Water flea)		
NOEC (chronic)	0 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	0.001 ng/l		
NOEC chronic crustacea	0.002 ng/l		
12.2. Persistence and degradability			
Surfactol™ 365 (61791-12-6)			
Persistence and degradability	Not readily biodegradable.		
12.3. Bioaccumulative potential			
Surfactol™ 365 (61791-12-6)			
Bioconcentration factor (BCF REACH)	3.162 L/kg		
Partition coefficient n-octanol/water (Log Kow)	4.297 (25°C)		
Bioaccumulative potential	Bioaccumulation is not expected to occur.		
12.4. Mobility in soil			
Surfactol™ 365 (61791-12-6)			
Ecology - soil	Low mobility (soil).		
12.5. Other adverse effects			

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Do not dispose of waste into sewer. Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
DOT NA No	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
Special transport precautions	: For transport OUTSIDE the United States the proper shipping name is: UN3082, Environmentally Hazardous substance, liquid, n.o.s, (castor oil, ethoxylated), 9, PG III (Marine Pollutant).

DOT

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					
Surfactol™ 365 (61791-12-6)					
SARA Section 311/312 Hazard Classes	Section 2 GHS classification				
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, ethoxylated	61791-12-6	Present	Active	XU	

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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations

CANADA

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Castor oil, ethoxylated (61791-12-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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 Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 10/01/2023

Full text of H-phrases					
H401	Toxic to aquatic life				
H410	Very toxic to aquatic life with long lasting effects				
NFPA health hazar NFPA fire hazard NFPA reactivity	 and C - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials. A - Materials that must be preheated before ignition can occur. O - Material that in themselves are normally stable, even under fire conditions. 				
Hazard Rating Health Flammability Physical	 0 Minimal Hazard - No significant risk to health 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) 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. 				

Indication of changes:

All chapters have been modified since the previous version (new software).

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.