

DARRANT CHEMICALS

SAFETY DATA SHEET

00. Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

EC member states.

01. 01 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

01.01.01.	Commercial Name	Castor Oil (all grades)
01.01.02.	Additional identification	Fixed oil of cold pressed Castor seeds
01.01.04.	REACH registration number	The substance is exempt by name as a vegetable oil, according to REACH
01.01.07.	Product No	A10130
01.01.08.	Material No:	A10130
01.01.09.	Specification No	Issue 2
01.02.	Use of the substance / preparation	The product is intended for professional use
01.02.01.	Identified uses	Identified uses: the substance is exempt from registration according to REACH, but see below for guidance
01.02.01.01.01.	Sector of uses [SU]	Cosmetics, cleaners, adhesives, construction, lubricants, SU 3, 8, 9, 10, 12, 19, 21,22
01.02.01.01.02.	Product categories [PC]	PC 1, 10, 24, 39
01.02.01.01.03.	Process categories [PROC]	PROC 3, 4, 5, 8, 9, 10,19
01.02.01.01.04.	Article categories [AC]:	AC 13-1, 13-2, 13-3 plastic products
01.02.01.01.05.	Environmental release categories [ERC]	ERC 2, 5, 8A, 8C, 8F
01.02.05.	Uses advised against	See chapter 16 for a general overview.
01.03.01.	Supplier	DARRENT CHEMICALS Unit 1, Witham Point Business Park Wavell Drive, Lincoln LN3 4PL 01522 521864

02. 02 - HAZARDS IDENTIFICATION

02.01.	Hazards description	This substance is not hazardous in the sense of regulation (EC) No 1272/2008 [GHS]
02.01.01.	Classification according to 67/548/EEC	Not classified
02.01.01.01.	Nature of Hazard	none
02.01.01.02.	R-Phrases	NONE
02.01.01.03.	S-Phrase	NONE
02.01.02.	Classification (EC) No 1272/2008 [CLP]	Not classified
02.01.02.01.	Hazard classes and Hazard categories	None
02.01.02.02.	Hazard Statements	NONE
02.01.02.02.01.	Precautionary Statements	NONE
02.01.02.03.	Classification procedure	Expert judgement and weight of evidence determination
02.01.02.04.	Additional hints	Slippery under foot

02.02.01.	Special dangers for human & environment	See attached safety data sheets and/or operating instruction
02.02.01.01.	Adverse physicochemical effects	This material is combustible, but will not ignite readily
02.02.01.02.	Adverse human health effects & symptom	Mild laxative in gram amounts
03.	03 - COMPOSITION / INFORMATION ON INGREDIENTS	
03.01.03.	Synonymes	Ricinus communis L.
03.01.04.	CAS No:	8001-79-4
03.01.06.	EC No	232-293-8
03.01.07.	FEMA No	2263
03.01.08.	FDA registration No:	172.510
03.01.09.	COE No	401n
03.01.12.	Additional information	triglyceride Ricinoleic and related acids
04.	04 - FIRST AID MEASURES	
04.02.	In case of inhalation	In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still
04.03.	In case of skin contact	Water and soap
04.04.	In case of eye contact	Non irritating, can be used to remove oil soluble eye contaminants
04.05.	In case of ingestion	A laxative in gram amounts, transfer patient to a toilet
05.	05 - FIRE-FIGHTING MEASURES	
05.01.	Suitable extinguishing media	Water
05.02.	Inadvisable Extinguishing media	none
05.03.	Hazards substance or preparation combu	Carbon dioxide (CO2)
05.04.	Special equipment for fire-fighters	Protective clothing
05.05.	Additional information	Move undamaged containers from immediate hazard area if it can be done safely
05.05.01.	Fire class	B (Fires of liquids or liquid turning substances)
05.05.01.01.	Method	DIN EN 2
06.	06 - ACCIDENTAL RELEASE MEASURES	
06.01.	Personal precaution	Special danger of slipping by leaking/spilling product
06.02.	Environmental precaution	Cover drains
06.03.	Methods for cleaning up	Wash with plenty of water
06.04.	Additional information	May be incinerated
07.	07 - HANDLING AND STORAGE	
07.01.01.	Advices on safe handling	Keep container tightly closed when not in use
07.01.01.01.	Protective measures	No special handling advices are necessary
07.01.01.02.01.	Prevent aerosol & dust generation	Open windows to ensure natural ventilation
07.01.01.02.02.	Measures to protect the environment	See chapter 8.
07.01.01.03.	Specific requirements or handling rules	Filtered air may be re-circulated into the workroom
07.01.02.	Precautions against fire and explosion	Not readily combustible
07.01.03.	Further information	No risk of spontaneous combustion of cleaning rags
07.02.03.	Requirements storage rooms & vessels	Keep container tightly closed.
07.02.04.	Hints on joint storage	Combustible substance
07.02.05.	Further information on storage conditions	Keep in a cool, well-ventilated place
07.02.05.01.	Storage temperature	Ambient
07.02.05.04.	Maximum period of storage (time)	2 years
07.02.06.	Storage class	No storage class
08.	08 - EXPOSURE CONTROLS / PERSONAL PROTECTION	
08.01.	Exposure limit value	none set
08.01.01.01.	Occupational exposure limits	none set
08.02.01.01.02.	Hand protection	Tested gloves must be worn

08.02.01.01.03.01.	Suitable eye protection	Eye glasses
08.02.01.01.03.06.	Remark	Don't wear contact lenses
08.02.01.01.04.	Protective clothing	Laboratory coat or overalls
08.02.01.01.04.01.	Suitable protective clothing	Overall.
08.02.01.01.04.02.	Unsuitable protective clothing	None
08.02.01.01.04.05.	Required properties	Antistatic, EN 1149-1.
08.02.01.01.04.06.	Recommended material	Microporous fibres (e.g. cotton, wool).
08.02.01.02.	Technical measures to prevent exposure	See section 7. No additional measures necessary.

09. 09 - PHYSICAL AND CHEMICAL PROPERTIES

09.01.01.01.	Physical state	Liquid.
09.01.01.02.	Colour	Amber
09.01.02.	Odour	Fatty
09.02.01.01.	pH value	7
09.02.01.02.	Melting point	-10
09.02.01.13.	Boiling temperature	313
09.02.01.15.	Vapour pressure	0.1mm at 20 C
09.02.01.16.	Density	0.95 to 0.97
09.02.01.17.	Bulk density	8.1 to 8.9 lbs/gallon
09.02.01.18.01.	Water solubility (g/l)	<0.001%
09.02.01.18.02.	Fat solubility (g/l)	complete
09.02.01.22.	Viscosity	6 to 8 poise at 25 C
09.02.01.22.03.05.	Remark	structure viscous.
09.02.02.02.02.	Auto Ignition temperature (AIT)	300 C
09.02.02.06.01	Flash Point (°C)	230
09.02.02.06.01.01.	Method	PMCC
09.02.02.06.01.04.	Evaluation	Not flammable

10. 10 - STABILITY AND REACTIVITY

10.01	Conditions to avoid	Polymerisation
10.02.	Materials to avoid	Alkali (lye)
10.03.	Hazardous decomposition products	Carbon dioxide

11. 11 - TOXICOLOGICAL INFORMATION

11.00.01.01.	Method	Regulation (EC) No 440/2008, Annex, B.36.
11.00.01.02.	Species	Rat
11.00.01.03.	Dose level	> 5000 mg/Kg
11.00.01.04.	Routes of administration	Oral
11.01.01.01.05.	Source	RIFM / FEMA
11.01.01.01.06.	Remark	Test data
11.01.01.01.07.	Specific target organ toxicity (SE)	No indication of STOST in test report data
11.01.01.02.	Acute dermal toxicity	>5000 mg/Kg
11.01.01.02.01.	Effect dose	LD50
11.01.01.02.03.	Species	Rabbit.
11.01.01.02.04.	Method	Test data
11.01.01.03.	Acute inhalative toxicity	No test data
11.01.01.03.01.	Effect dose	LC50:
11.01.01.03.02.	Exposure time	8 hours
11.01.01.03.03.	Species	adult human
11.01.01.03.04.	Method	industrial experience
11.01.01.04.	Additional information	No oral toxicity lower in GHS-category 5
11.01.01.05.	Evaluation / classification	Not Classified
11.01.03.01.	Primary irritation to the skin	None
11.01.03.01.02.	Species	Rabbit

11.01.03.01.03.	Method	RIFM-FEMA database
11.01.03.01.05.	Evaluation / classification	non-irritant
11.01.03.01.06.	Remark	Data apply to the technically active substance.
11.01.03.01.08.	Result	no erythema (redness).
11.01.03.02.	Irritation to eyes	used as first aid for accidental chilli spice in eyes
11.01.03.02.02.	Species	Rabbit
11.01.03.02.03.	Method	Draize test
11.01.03.02.05.	Evaluation / classification	non-irritant
11.01.03.02.06.	Remark	Practical experience / human experience
11.01.03.02.08.	Result	reversible effects
11.01.03.03.	Irritation to respiratory tract	no test data
11.01.03.03.01.	Exposure time:	8 hours
11.01.03.03.02.	Species	human
11.01.03.03.05.	Evaluation / classification	Not irritating to respiratory system.
11.01.03.03.06.	Remark	Practical experience / human experience
11.01.04.	Sensitisation	not a sensitiser
11.01.04.01.02.	Species	Healthy humans
11.01.04.01.03.	Method	ICDRG
11.01.04.01.05.	Evaluation / classification	not sensitising
11.01.05.	Repeated dose toxicity (subacute, chronic)	has laxative properties
11.01.05.11.	Evaluation / classification	No STOST found in tests
11.01.06.	CMR (carc, muta, tox reproduction)	not suspected of causing cancer
11.01.06.04.	Summary of CMR properties	Based on existing data the substance does not fulfill the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC.
11.01.07.	Phototoxicity	none reported in studies
11.02.01.	Observations on classification	Used as a skin lubricant in cosmetics
11.02.02.	Other observations	non-binder to estrogen receptor
11.03.	General remarks	Medical grades are ingested as a laxative

12. 12 - ECOLOGICAL INFORMATION

12.01.01.01.	Acute fish toxicity	no data
12.01.01.01.01.	Effective dose	LC50:
12.01.01.01.02.	Exposure time	8 hours
12.01.01.01.03.	Species	Any
12.01.01.01.04.	Method	no test data
12.01.01.01.05.	Source	RIFM / FEMA
12.01.01.01.06.	Evaluation	May coat the surface of water and prevent aquatic life breathing
12.01.01.01.07.	Remark	No test data
12.01.01.02.	Water hazard class (WGK)	WGK=0
12.01.01.03.	Acute daphnia toxicity	no test data
12.01.01.04.	Chronic daphnia toxicity	no test data
12.01.01.05.	Algae toxicity	no test data
12.01.01.06.	Bacteria toxicity	no test data
12.01.01.07.	Chronic algae toxicity	no test data
12.01.02.	Terrestrial toxicity	no test data
12.01.02.01.	Acute and sub-acute bird toxicity	no test data
12.01.02.03.	Bird reproduction toxicity	no test data
12.01.02.04.	Useful insect toxicity	no test data
12.01.02.05.	Acute earthworm toxicity	no test data
12.01.02.06.	Chronical earthworm toxicity (repro)	no data
12.01.02.07.	Effects on soil micro organisms	no data
12.01.02.08.	Long term toxicity organisms in sediment	no data
12.01.03.	Acute plant toxicity	no test data
12.01.04.	Impact on sewage plant	no data

12.01.05.	Chronic plant toxicity	no data
12.02.01.	Distribution to environment compartments	no data
12.02.02.	Surface tension	39 dynes/cm at 20 C
12.02.02.05.	Remark	Water solubility <100 mg/l at 20 C.
12.02.03.	Adsorption/Desorption	no data
12.02.03.01.	Transport soil-water	free
12.02.03.01.01.	Adsorption coefficient	free
12.02.03.01.01.01.	Koc	no data
12.02.03.01.01.02.	log Koc	no data
12.02.05.	Mobility/Remark	Data apply to the main component.
12.04.02.	Bioconcentration factor (BCF)	no bioaccumulation potential
12.05.	Results of PBT assessment	This substance does not meet the criteria for classification as PBT or vPvB.
12.06.01.	Ozone depletion potential (ODP)	low
12.06.02.	Photochemical ozone creation (OCP)	low
12.06.03.	Global warming potential (GWP)	low
12.06.04.	Atmospheric lifetime	no data
12.06.05.	Endocrine disrupting potential	none
12.07.05.	Biochemical oxygen demand (BOD)	no data
12.07.10.	Overall evaluation	No test data but expected to be ultimately biodegradable

13. 13 - DISPOSAL CONSIDERATIONS

13.01.	Appropriate disposal / Product	Dispose of waste according to applicable local, state, and federal regulations.
13.03.03.	Remark	Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

14. 14 - TRANSPORT INFORMATION

14.01.	Land transport (ADR/RID)	Not Classified
14.01.02.	Class	NO CLASS
14.01.04.	Packing group	No class
14.01.06.	Proper Shipping name	CASTOR OIL
14.01.07.	Remarks	No dangerous good in sense of this transport regulation.
14.01.08.	Special Provisions	avoid environmental exposure
14.01.09.	Limited quantity (LQ)	None necessary
14.02.01.	Type	Vegetable oil
14.02.07.	Remarks	No dangerous good in sense of this transport regulation.
14.03.01.	IMDG-CODE-Class	NO CLASS
14.03.09.	Marine pollutant	No
14.04.	Air transport (ICAO-TI / IATA-DGR)	NO CLASS
14.05.	Further information	1515309000
14.05.01	Transport pictogram	see last page

15. 15 - REGULATORY INFORMATION

15.01.01.	Chemical Safety Assessment	For this substance a chemical safety assessment is not required.
15.01.02.01.	Hazard statements DG & preparations	Not Classified
15.01.02.05.	Remark	Classification carried out according to 'Calculation Procedure' of the Dangerous Preparations Directive (1999/45/EC).
15.01.04.01.	Directive 96/82/EC severe accidents with	Not classified according to 96/82/EC, annex 1, part 2.
15.01.04.02.	1999/13/EC limit emissions -VOC-guidelines	Not a VOC according to 99/13/EC.
15.01.04.03.	Restrictions of occupation	avoid ingestion of large amounts
15.01.05.01.	Signal word	None
15.01.05.02.	Pictograms & hazard statements DG	none
15.01.05.03.	Hazard pictograms	see last page
15.01.05.10.	Special rules on packaging	none

16. Other information

* Data changed compared with the previous version.

16.01.	Relevant R-and H-phrases (Number & full)	Not Classified
16.02.	Training instructions	Good housekeeping rules apply
16.03.	Recommended restrictions on use	avoid exposure to vapour
16.03.01.	Uses- and exposure categories (overview)	Solvent for plastics and surface coatings
16.03.01.02.	Industrial use	Human, oral, short term:
16.03.01.03.	Professional use	Human, oral, short term:
16.03.01.04.	Consumer use	Human, oral, short term:
16.03.01.05.	Evaluation	use advised (+)
16.04.	Further information	RIFM-FEMA database monographs
17.	DISCLAIMER	This data was compiled from current data sources in CLP 1272/2008 format (EU-GHS) and REACH regulations 2007. It is accurate to the best of our knowledge and belief.

Computer generated, if recipient disagrees with any of the data contained in this document, please refer to the above mentioned in section 1.

Hazard and Precautionary Statements	Code	Statement
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NO

NONE
NONE

Risk and Safety Phrases	Code	Phrase
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NONE
NONE

Transport Class	Class	Description
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NO CLASS No Class