



SDS Revision Date: 07/08/2015

# SAFETY DATA SHEET

## SECTION 1

## IDENTIFICATION

**Company Name** Soil & Plant Solutions  
**Address** 23 East 675 South  
**City, State, Zipcode** Ivans, UT 84738 USA  
**Phone Numbers** (608) 795-4266  
**Website** www.soilplantsolutions.com

**24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)**  
1-800-424-9300

**Poison Control Center (USA)**  
1-800-222-1212

**Product Identity** Cloak  
**Reference/Item Number** CLOAK02, CLOAK30, CLOAK265  
**Intended Use** See technical data sheet.  
**Application Method** See technical data sheet.

## SECTION 2

## HAZARD(S) IDENTIFICATION

Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:

**[EYE DAM 2A]:**

**H319:** Causes skin irritation.

**[SKIN IRRITANT 2]:**

**H315:** Causes serious eye irritation.

**[PREVENTION]:**

**P254:** Wash thoroughly after handling.

**P280:** Wear protective gloves and eye/face protection.

**[RESPONSE]:**

**P302+352:** IF ON SKIN: Wash with plenty of soap and water.

**P232+313:** If skin irritation occurs, get medical advice/attention.

**P305+351+338:** IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.

**P337+313:** If eye irritation persists, get medical advice/attention.

**P362:** Take off contaminated clothing and wash before reuse.

**[STORAGE]:**

**P404:** Store in a closed container.

**P402+235:** Store in a well-ventilated place. Keep cool.

**[DISPOSAL]:**

**P501:** Dispose of contents/container in accordance with local/national regulations.

### HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)



**WARNING**

## SECTION 3

## COMPOSITION/INFORMATION ON INGREDIENTS

This product is labeled with the following GHS classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and some ingredients, CAS numbers and mixture percentages are being withheld as a trade secret.

<b>Ingredient/Chemical Designations</b>	<b>Weight %</b>	<b>CAS Number</b>	<b>GHS Classification</b>	<b>Notes</b>
Proprietary blend of surfactants, fatty acid, solvent and base oil	100	Trade secret	Eye Dam 2A; H319 / Skin Irrit. 2; H315	[1] [2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

This product contains the following substance that is subject to the reporting requirements of SARA Title III, Section 313.

<b>Ingredient</b>	<b>CAS Number</b>	<b>Wt. %</b>
(2-methoxymethylethoxy)propanol	34590-94-8	<5.0

## SECTION 4

## FIRST AID MEASURES

### [4.1 DESCRIPTIONS OF FIRST AID MEASURES]:

<b>General:</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes:</b>	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
<b>Skin:</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion:</b>	If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### [4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED]:

<b>Overview:</b>	No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 for further details.
<b>Eyes:</b>	Causes serious eye irritation.
<b>Skin:</b>	Causes skin irritation.

## SECTION 5

## FIRE FIGHTING MEASURES

<b>5.1 Extinguishing Media:</b>	Recommended extinguishing media: alcohol resistant foam, CO <sub>2</sub> , powder, water spray. Do not use water jet.
<b>5.2 Special Hazards:</b>	Combustion may yield smoke, carbon monoxide and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.
<b>5.3 Advice For Firefighters:</b>	Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment, and in enclosed areas, self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel. Product emulsifies in water.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space evacuate the area and check vapor levels.
<b>6.2 Environmental Precautions:</b>	Do not allow spills to enter drains or water courses.
<b>6.3 Methods and Material For Containment and Cleaning Up:</b>	Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials (e.g. sand/earth/vermiculite). Place in closed containers outside buildings and dispose of according to the Waste Regulations (see Section 13.) Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or water courses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams, or lakes, the Environmental Protection Agency should also be informed.

## SECTION 7

## HANDLING AND STORAGE

<b>7.1 Precautions For Safe Handling:</b>	Handle containers carefully to prevent damage and spillage. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before reuse. Destroy contaminated belts and shoes and other items that cannot be decontaminated. Keep away from excessive heat and flame. See Section 2 for further details [PREVENTION].
<b>7.2a Conditions For Safe Storage:</b>	Store in tightly closed container in dry, well-ventilated area away from excessive heat and incompatibles. See Section 2 for further details [STORAGE].
<b>7.2b Incompatible Materials:</b>	Oxidizing agents, strong acids, strong bases.
<b>7.3 Specific End Use(s):</b>	No data available.

## SECTION 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Exposure Data:** Ingredients with established limits for exposure are listed below:

CAS No.	Ingestion	Source	Value
0034590-94-8	(2-methoxymethylethoxy)propanol	OSHA	TWA 100 ppm (600 mg/m <sup>3</sup> ) skin
		ACGIH	TWA 100 ppm STEL: 150 ppm skin
		NIOSH	TWA 100 ppm (600 mg/m <sup>3</sup> ) ST 150 ppm (900 mg/m <sup>3</sup> ) skin
Trade Secret	Petroleum distillates (base oil-unspecified)	OSHA	TWA 5 mg/m <sup>3</sup> 8 hours
		ACGIH	TWA 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> as oil mist, if generated
		NIOSH	No established limit

**Carcinogen Data:** This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP, or IARC at greater than 0.1%.

### [8.2 EXPOSURE CONTROLS]:

<b>Respiratory:</b>	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
<b>Eyes:</b>	Wear safety eyewear (e.g. safety spectacles/goggles/visors) to protect against the splash of liquids.
<b>Skin:</b>	Overalls, which cover the body, arms, and legs, should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

**Engineering Controls:** Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates, and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

**Other Work Practices:** See technical data sheet. See Section 2 for further details [PREVENTION].

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear golden liquid	<b>Upper Flammability Limits:</b>	Upper Explosive Limit: Not measured
<b>Odor:</b>	Not determined	<b>Lower Flammability Limits:</b>	Lower Explosive Limit: Not measured
<b>Odor Threshold:</b>	Not measured	<b>Vapor Pressure (Pa):</b>	Not measured
<b>pH:</b>	Not measured	<b>Vapor Density:</b>	Heavier than air
<b>Melting/Freezing Points (°C):</b>	Not measured	<b>Solubility in Water:</b>	Emulsifies
<b>Initial Boiling Point/Range (°C):</b>	No Established Limit (C) / No Established Limit (F)	<b>Partition Co-efficient n-octanol/water (Log Kow):</b>	Not measured
<b>Flash Point:</b>	>93°C / >200°F Pensky Martin Closed Cup (PMCC)	<b>Auto-Ignition Temperature (°C):</b>	Not measured
<b>Evaporation Rate (Ether=1):</b>	Not measured	<b>Decomposition Temperature:</b>	Not measured
<b>Flammability (Solid, Gas):</b>	Not applicable	<b>Viscosity (cSt):</b>	Not measured
<b>Specific Gravity @ 20°C</b>	0.97	<b>VOC%:</b>	Not measured
<b>Other Information:</b>	DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)		

**SECTION 10****STABILITY AND REACTIVITY**

<b>10.1 Reactivity:</b>	Not chemically reactive.
<b>10.2 Chemical Stability:</b>	Stable under normal ambient and anticipated conditions of use.
<b>10.3 Hazardous Reactions:</b>	Hazardous reactions not anticipated.
<b>10.4 Conditions To Avoid:</b>	Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.
<b>10.5 Incompatible Materials:</b>	Oxidizing agents, strong acids, strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Not anticipated under normal conditions of use.

**SECTION 11****TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	<b>Ingredients</b>	<b>Oral LD50 mg/kg</b>	<b>Skin LD50mg/kg</b>	<b>Inhalation Vapor/Dust/Mist LD50mg/L/4hr</b>
	Proprietary Blend	>5,000/Category NA	>5,000/Category NA	ND
<b>Category --:</b>	Item: Acute Toxicity (mouth) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Acute Toxicity (skin) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Acute Toxicity (inhalation) / Hazard: Not applicable.			
<b>Category 2:</b>	Item: Skin Corrosion/Irritation / Hazard: <b>Causes skin irritation.</b>			
<b>Category 2A:</b>	Item: Eye Damage/Irritation / Hazard: <b>Causes serious eye irritation.</b>			
<b>Category --:</b>	Item: Sensitization (skin) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Germ Toxicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Carcinogenicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Reproductive Toxicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Specific Target Organ Systemic Toxicity (repeated exposure) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Aspiration Hazard / Hazard: Not applicable.			

**SECTION 12****ECOLOGICAL INFORMATION**

<b>12.1 Toxicity:</b>	No additional information provided for this product. See Section 3 for chemical specific data.
<b>12.2 Persistence and Degradability:</b>	There is no data available on the preparation itself.
<b>12.3 Bioaccumulative Potential:</b>	Not measured.
<b>12.4 Mobility in Soil:</b>	No data available.
<b>12.5 Results of PBT and vPvB Assess:</b>	This product contains no PBT/vPvB chemicals.
<b>12.6 Other Adverse Effects:</b>	No data available.

**SECTION 13****DISPOSAL CONSIDERATIONS**

<b>13.1 Waste Treatment Methods:</b>	Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply. Dispose of contents in accordance with local and national regulations.
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## SECTION 14 TRANSPORT INFORMATION

<b>UN Number:</b>	Not regulated	
<b>UN Proper Shipping Name:</b>	Not regulated	
<b>Transport Hazard Class(es):</b>	<b>DOT (Domestic Surface Transportation):</b>	<b>IMO/IMDG (Ocean Transportation) / IATA (Air Transportation):</b>
	DOT Proper Shipping: Not regulated	IMDG/IATA Proper Shipping Name: Not regulated
	DOT Hazard Class: Not applicable	IMDG/IATA Hazard Class: Not applicable
	DOT Label: None	Sub Class: Not applicable
	UN/NA Number: Not applicable	IMDG/IATA Packing Group: Not applicable
	DOT Packing Group CERCLA/DOT RQ: NA gal. / NA lbs.	
<b>Special Precautions For User:</b>	Not applicable	
<b>Transport:</b>	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable	
<b>Environmental Hazards IMDG:</b>	Marine Pollutant: No	
<b>Packing Group:</b>	Not applicable	

## SECTION 15 REGULATORY INFORMATION

<b>Regulatory Overview:</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.
<b>WHMIS Classification:</b>	D2B
<b>US EPA Tier II Hazards:</b>	Fire: <u>No</u> / Sudden Release of Pressure: <u>No</u> / Reactive: <u>No</u> / Immediate (acute): <u>Yes</u> / Delayed (chronic): <u>No</u>
<b>EPCRA 311/312:</b>	Chemicals and RQs (>0.1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>EPCRA 302:</b>	Extremely Hazardous (>0.1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>EPCRA 313</b>	Toxic Chemicals (>0.1%): (2-methoxymethylethoxy)propanol
<b>Proposition 65</b>	Carcinogens (>0.0%): 1,4-dioxane, Acetaldehyde, Anthracenedione, Naphthalene, Oxirane
<b>Proposition 65:</b>	Developmental Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>Proposition 65:</b>	Female Repro Toxins (>0.0%): Oxirane
<b>Proposition 65:</b>	Male Repro Toxins (>0.0%): Oxirane
<b>N.J. RTK Substance (&gt;1%):</b>	(2-methoxymethylethoxy)propanol
<b>Penn RTK Substances (&gt;1%):</b>	(2-methoxymethylethoxy)propanol

## SECTION 16 OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.