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Version: 4.5
Effective date: 04/01/2021
Previous Date: 12/12/2019

SAFETY DATA SHEET

DUSTREAT DC9140E (Dustsolv DS 940)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture DUSTREAT DC9140E (Dustsolv DS 940)

Date of first issue 21/01/2005

Version number 4.5

Revision date 04/01/2021

Supersedes date 12/12/2019

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Material handling treatment.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,
Tashkent Region,
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-Diethylaminoethanol, Alcohols, C10, alkoxylated, Sodium-bis-(2-ethylhexyl) sulphosuccinate



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Hazard pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE/doctor.

Storage

Not available.

Disposal

Not available.

Supplemental label information

None.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description

Surfactants in aqueous solution

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Alcohols, C10, alkoxyated	40 - < 50	166736-08-9	-	-	
Classification:	Acute Tox. 4;H302, Eye Dam. 1;H318				
Sodium-bis-(2-ethylhexyl) sulphosuccinate	20 - < 30	577-11-7 209-406-4	01-2119491296-29	-	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318				
2-Methylpentane-2,4-diol (Hexylene glycol)	5 - < 10	107-41-5 203-489-0	01-2119539582-35	603-053-00-3	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
2-Diethylaminoethanol	1 - 3	100-37-8 202-845-2	01-2119488937-14	603-048-00-6	
Classification:	Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 3;H311, Skin Corr. 1B;H314, Acute Tox. 3;H331				
Ethanol	1 - 3	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319				
Bis(2-ethylhexyl) Maleate	< 0,2	142-16-5 205-524-5	01-2119524002-60	-	
Classification:	STOT RE 2;H373, Aquatic Acute 1;H400				



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The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth. Do not give anything to eat or drink. Do not induce vomiting. Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed Irritant effects.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam. Foam or water create a slippery condition. Spread sand or grit.
Unsuitable extinguishing media	Not available.

5.2. Special hazards arising from the substance or mixture Oxides of carbon, nitrogen, and sulphur evolved in fire.

5.3. Advice for firefighters

Special protective equipment for firefighters	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear protective clothing, gloves and safety goggles.

For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Prevent from entering sewers or the immediate environment.
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

6.3. Methods and material for containment and cleaning up Spills of the product are very slippery.
Absorb onto inert material and dispose of according to Hazardous Waste Regulations.

6.4. Reference to other sections Please refer also to section no. 8 'Exposure controls' for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Handle in accordance with good industrial hygiene and safety procedures.
Arrange for eye wash possibility.



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7.2. Conditions for safe storage, including any incompatibilities Store in cool, well ventilated area.
 Store containers closed when not in use.
 Store away from oxidisers.

7.3. Specific end use(s) Only for professional and industrial users
Shelf life 720 Days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2-Methylpentane-2,4-diol (Hexylene glycol) (CAS 107-41-5)	STEL	123 mg/m ³
	TWA	25 ppm
		123 mg/m ³
Ethanol (CAS 64-17-5)	TWA	25 ppm
		1920 mg/m ³
		1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor	Notes
2-Diethylaminoethanol (CAS 100-37-8)			
Long-term, Local, Inhalation	10,7 mg/m ³	5	Repeated dose toxicity
Long-term, Systemic, Dermal	2,5 mg/kg bw/day	20	
Long-term, Systemic, Inhalation	18,3 mg/m ³	10	
2-Methylpentane-2,4-diol (Hexylene glycol) (CAS 107-41-5)			
Long-term, Local, Inhalation	49 mg/m ³		
Long-term, Systemic, Dermal	2 mg/kg	250	
Long-term, Systemic, Inhalation	14 mg/m ³	62.5	
Short-term, Local, Inhalation	98 mg/m ³		
Bis(2-ethylhexyl) Maleate (CAS 142-16-5)			
Long-term, Systemic, Dermal	2,5 mg/kg bw/day	72	
Long-term, Systemic, Inhalation	7 mg/m ³	9	Repeated dose toxicity
Ethanol (CAS 64-17-5)			
Long-term, Systemic, Dermal	343 mg/kg	24	Repeated dose toxicity Carcinogenicity respiratory tract irritation
Long-term, Systemic, Inhalation	950 mg/m ³		
Short-term, Local, Inhalation	1900 mg/m ³		
Sodium-bis-(2-ethylhexyl) sulphosuccinate (CAS 577-11-7)			
Long-term, Systemic, Dermal	267,86 mg/kg bw/day	24	
Long-term, Systemic, Inhalation	1889,1 mg/m ³		

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
2-Diethylaminoethanol (CAS 100-37-8)			
Freshwater	0,062 mg/l	1000	
Intermittent releases	340 µg/l		
Marine water	0,006 mg/l	10000	
Sediment (freshwater)	0,673 mg/kg		
Sediment (marine water)	0,067 mg/kg		
Soil	0,098 mg/kg		
STP	10 mg/l	100	



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2-Methylpentane-2,4-diol (Hexylene glycol) (CAS 107-41-5)

Freshwater	0,429 mg/l	1000
Intermittent releases	4,29 mg/l	100
Marine water	0,0429 mg/l	10000
Secondary poisoning	100 mg/kg	90
Sediment (freshwater)	1,79 mg/kg	
Sediment (marine water)	0,179 mg/kg	
Soil	0,11 mg/kg	
STP	20 mg/l	10

Bis(2-ethylhexyl) Maleate (CAS 142-16-5)

Freshwater	1,04 µg/l	50	
Intermittent releases	6,19 µg/l		
Marine water	104 ng/l	500	
Secondary poisoning	20 mg/kg	300	Oral
Sediment (freshwater)	15,95 mg/kg		
Sediment (marine water)	1,595 mg/kg		
Soil	3,19 mg/kg		
STP	100 mg/l	10	

Ethanol (CAS 64-17-5)

Freshwater	0,96 mg/l	10
Intermittent releases	2,75 mg/l	100
Marine water	0,79 mg/l	100
Secondary poisoning	0,72 g/kg	90
Sediment (freshwater)	3,6 mg/kg	
Sediment (marine water)	2,9 mg/kg	
Soil	0,63 mg/kg	1000
STP	580 mg/l	10

Sodium-bis-(2-ethylhexyl) sulphosuccinate (CAS 577-11-7)

Freshwater	0,18 mg/l	50
Intermittent releases	152 µg/l	100
Marine water	0,018 mg/l	500
Sediment (freshwater)	17,789 mg/kg	
Sediment (marine water)	1,779 mg/kg	
Soil	1,04 mg/kg	100
STP	12,2 mg/l	10

8.2. Exposure controls

Appropriate engineering controls Provide eyewash station.
 Adequate ventilation to maintain air contaminants below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles.
 CEN : EN 166

Skin protection

- Hand protection Neoprene gloves (Protection against unintentional short-term contact)
 Nitrile gloves (Protection against unintentional short-term contact)
 Rubber gloves (Protection against unintentional short-term contact)
 Penetration time: > 480 min
 Coating thickness: 0,5 mm
 CEN : EN 374-1/2/3/4; EN 420

- Other Protective clothing.
 CEN : EN ISO 13688; EN ISO 6529; EN 14605

Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: A2-P2
 CEN : EN 140; EN 14387

Thermal hazards Not available.

Environmental exposure controls Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance

Colour	Colourless to light yellow
Physical state	Liquid
Odour	Sweet
Odour threshold	Not available.
pH (concentrated product)	10,9 Neat
pH in aqueous solution	Not available.
Melting point/freezing point	< -18 °C
Initial boiling point and boiling range	Not available.
Flash point	> 64 °C P-M(CC)
Evaporation rate	Slower than Ether
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Vapour pressure	< 10 mmHg
Vapour pressure temp.	21 °C
Vapour density	> 1
Relative density	1,03
Relative density temperature	21 °C

Solubility

Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	61,4 mPa.s
Viscosity temperature	22 °C
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Pour point	-4 °C
Shelf life	720 Days
VOC	9 % Estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Not applicable.
10.4. Conditions to avoid	No special requirement.
10.5. Incompatible materials	Avoid contact with strong oxidisers.
10.6. Hazardous decomposition products	Oxides of carbon, nitrogen, and sulphur evolved in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Product	Test Results
DUSTREAT DC9140E (Dustsolv DS 940) (Mixture)	<p>Acute Dermal LD50 Rabbit: > 5000 mg/kg (Calculated according to GHS additivity formula)</p> <p>Acute Inhalation LC50 Rat: > 5 mg/l 4 hours (Calculated according to GHS additivity formula)</p> <p>Acute Oral LD50 Rat: > 1003 mg/kg (Calculated according to GHS additivity formula)</p>

Components	Test Results
2-Diethylaminoethanol (100-37-8)	<p>Acute Dermal LD50 Rabbit: 1100 mg/kg</p> <p>Acute Inhalation LC50 Rat: 4,6 mg/l 4 hour</p> <p>Acute Oral LD50 Rat: 1320 mg/kg</p>
2-Methylpentane-2,4-diol (Hexylene glycol) (107-41-5)	<p>Acute Dermal LD50 Rabbit: > 5000 mg/kg</p> <p>Acute Oral LD50 Rat: 3700 mg/kg</p>
Alcohols, C10, alkoxyated (166736-08-9)	<p>Acute Oral LD50 Rat: 500 - 2000 mg/kg</p>
Sodium-bis-(2-ethylhexyl) sulphosuccinate (577-11-7)	<p>Acute Dermal LD50 Rabbit: > 5000 mg/kg</p> <p>Acute Oral Rat: 3080 mg/kg</p>
Ethanol (64-17-5)	<p>Acute Dermal LD50 Rabbit: > 5000 mg/kg</p> <p>Acute Inhalation LC50 Rat: 124,7 mg/l/4h</p> <p>Acute Oral LD50 Rat: > 5000 mg/kg</p>

Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Ingestion	May cause irritation of the gastrointestinal tract. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhoea.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Symptoms	Not available.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	None known.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity



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Product	Species		Test Results
DUSTREAT DC9140E (Dustsolv DS 940) (CAS Mixture)			
Aquatic			
Crustacea	LC50	Daphnia magna	51,8 mg/l, Static Renewal Bioassay, 48 hour
	NOEL	Daphnia magna	25 mg/l, Static Renewal Bioassay, 48 hour
Fish	LC50	Fathead minnow	26,5 mg/l, Static Renewal Bioassay, 96 hour
		Rainbow trout	35,4 mg/l, Static Renewal Bioassay, 96 hour
	NOEL	Fathead minnow	12,5 mg/l, Static Renewal Bioassay, 96 hour
		Rainbow trout	25 mg/l, Static Renewal Bioassay, 96 hour

12.2. Persistence and degradability

- COD (mgO2/g) 1636 (calculated data)
- BOD 5 (mgO2/g) 0 (calculated data)
- BOD 28 (mgO2/g) 0 (calculated data)
- Zahn-Wellens Test (%) 81
- Degradation in 28 days OECD 302B
- TOC (mg C/g) 0 (calculated data)

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

2-Diethylaminoethanol	0,05
Ethanol	-0,31
Sodium-bis-(2-ethylhexyl) sulphosuccinate	< 4,5

Bioconcentration factor (BCF)

2-Diethylaminoethanol	< 6,1
Sodium-bis-(2-ethylhexyl) sulphosuccinate	56,23

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contaminated packaging According to Hazardous Waste Regulations.
 EWC (European Waste Code) recommendation : 15 01 10
 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
 15 01 Packaging (including separately collected municipal packaging waste).
 15 01 10 Packaging containing residues of or contaminated by dangerous substances.
 Depending on the origin and state of the waste, other EWC numbers may be applicable too.

Disposal methods/information According to Hazardous Waste Regulations.
 EWC (European Waste Code) recommendation : 16 03 05
 16 Wastes not otherwise specified in the list.
 16 03 Off-specification batches and unused products.
 16 03 05 Organic wastes containing dangerous substances.
 Depending on the origin and state of the waste, other EWC numbers may be applicable too.



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SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

2-Diethylaminoethanol (CAS 100-37-8)

Ethanol (CAS 64-17-5)

National regulations Not available.

15.2. Chemical safety assessment Not available.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes



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Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations

COD: Chemical Oxygen Demand
 IATA: International Air Transport Association
 EC-No: European Commission Number
 CAS: Chemical Abstract Service.
 CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
 CEN: European Committee for Standardization (Comité Européen de Normalisation).
 TWA: Time Weighted Average.
 STEL: Short-term Exposure Limit.
 LD50: Lethal Dose 50%.
 LC50: Lethal Concentration 50%.
 EC50: Effective Concentration 50%.
 NOEL: No observed effect level.
 BOD: Biochemical oxygen demand.
 TOC: Total Organic Carbon.
 ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).
 IMDG Code: International Maritime Dangerous Goods Code.
 RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
 Safety data sheets of raw materials.

References

Information on evaluation method leading to the classification of mixture

The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Training information

Provide training on safe handling while considering the type of application and exposure scenarios.

Based on EC Directive / Regulations

(EC) No 1907/2006 (REACH)
 (EC) No 1272/2008
 (EU) 2015/830
 (EU) No 1357/2014

Further information

Correction in Section: 2,3,8