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Version: 5.0
Effective date: 12/03/2020
Previous Date: 16/02/2018

SAFETY DATA SHEET

DUSTREAT DC9119E (Dustsolv DS 919)

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

1.1. Product identifier

Trade name or designation of the mixture DUSTREAT DC9119E (Dustsolv DS 919)

Date of first issue 21/01/2005

Version number 5.0

Revision date 12/03/2020

Supersedes date 16/02/2018

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

Serious eye damage/eye irritation Category 2

H319 - Causes serious eye irritation.

Skin sensitisation Category 1A

H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment,
long-term aquatic hazard Category 3

H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements



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

Contains: Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

Hazard pictograms



Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.

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	Polyvinylalcohol in aqueous solution				
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Alcohols, C10, alkoxyated	1 - < 3	166736-08-9	-	-	
Classification:	Acute Tox. 4;H302, Eye Dam. 1;H318				
Boric acid	<= 1	10043-35-3 233-139-2	01-2119486683-25	005-007-00-2	
Classification:	Repr. 1B;H360D, Repr. 1B;H360F				
Methanol	<= 0,2	67-56-1 200-659-6	01-2119433307-44	603-001-00-X	#
Classification:	Flam. Liq. 2;H225, Acute Tox. 3;H301, Acute Tox. 3;H311, Acute Tox. 3;H331, STOT SE 1;H370				



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	0,0015 < 0,06	55965-84-9 -	-	613-167-00-5	
Classification:	Acute Tox. 3;H301, Acute Tox. 2;H310, Skin Corr. 1C;H314, Skin Sens. 1A;H317, Eye Dam. 1;H318, Acute Tox. 2;H330, Aquatic Acute 1;H400(M=100), Aquatic Chronic 1;H410(M=100)				B

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	Move to fresh air.
Skin contact	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do not give anything to eat or drink.

4.2. Most important symptoms and effects, both acute and delayed May cause allergic skin reaction.
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.
Unsuitable extinguishing media	Not available.

5.2. Special hazards arising from the substance or mixture Oxides of carbon 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.



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- 6.2. Environmental precautions** Prevent from entering sewers or the immediate environment.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
- 6.3. Methods and material for containment and cleaning up** Absorb onto inert material and dispose of according to Hazardous Waste Regulations.
Remove small spills with plenty of water.
- 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** Wash contaminated skin promptly.
- 7.2. Conditions for safe storage, including any incompatibilities** Store containers closed when not in use.
Store in cool, well ventilated area.
Store away from oxidisers.
- 7.3. Specific end use(s)** Only for professional and industrial users
- Shelf life** 360 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	333 mg/m ³
		250 ppm
	TWA	266 mg/m ³
		200 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Methanol (CAS 67-56-1)	TWA	260 mg/m ³
		200 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
Boric acid (CAS 10043-35-3)	Long-term, Systemic, Dermal	392 mg/kg/day	
	Long-term, Systemic, Inhalation	8,3 mg/m ³	
	Methanol (CAS 67-56-1)		
Methanol (CAS 67-56-1)	Long-term, Local, Inhalation	260 mg/m ³	1
	Long-term, Systemic, Dermal	40 mg/kg	1
	Long-term, Systemic, Inhalation	260 mg/m ³	1
	Short-term, Local, Inhalation	260 mg/m ³	1
	Short-term, Systemic, Dermal	40 mg/kg	1
	Short-term, Systemic, Inhalation	260 mg/m ³	1

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Boric acid (CAS 10043-35-3)	Freshwater	2,9 mg/l	2
	Intermittent releases	13,7 mg/l	
	Marine water	2,9 mg/l	2
	Soil	5,7 mg/kg	2
	STP	10 mg/l	1



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Methanol (CAS 67-56-1)		
Freshwater	20,8 mg/l	10
Intermittent releases	1540 mg/l	10
Marine water	2,08 mg/l	100
Sediment (freshwater)	77 mg/kg	
Sediment (marine water)	7,7 mg/kg	
Soil	100 mg/kg	10
STP	100 mg/l	10

Exposure guidelines

UK EH40 WEL: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

8.2. Exposure controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection Safety goggles.
CEN : EN 166

Skin protection

- Hand protection Gauntlet type nitrile gloves (Protection against unintentional short-term contact)
 Gauntlet type neoprene gloves (Protection against unintentional short-term contact)
 Gauntlet type rubber gloves (Protection against unintentional short-term contact)
 Coating thickness: 0,5 mm
 Penetration time: > 480 min
 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: P2
CEN : EN 140; EN 143; EN 149

Thermal hazards Not available.

Environmental exposure controls Prevent from entering in public sewers or the immediate environment.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Colour Colourless

Physical state Liquid

Odour Slight

Odour threshold Not available.

pH (concentrated product) 5

pH in aqueous solution 4,9 (5% SOL.)

Melting point/freezing point 0 °C

Initial boiling point and boiling range 104 °C

Flash point > 100 °C P-M(CC)

Evaporation rate < 1 (Ether = 1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapour pressure 18 mm Hg

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Vapour pressure temp.	21 °C
Vapour density	< 1 (Air = 1)
Relative density	1,02
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	390 cps
Viscosity temperature	21 °C
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Pour point	3 °C
Shelf life	360 days
VOC	0 % (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 evolved in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product	Test Results
DUSTREAT DC9119E (Dustsolv DS 919) (Mixture)	Acute Dermal LD50 Rabbit: > 2000 mg/kg (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 2000 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
Boric acid (10043-35-3)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 2,2 mg/l/4h Acute Oral LD50 Rat: 2660 mg/kg
Alcohols, C10, alkoxyated (166736-08-9)	Acute Oral LD50 Rat: 500 - 2000 mg/kg
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (55965-84-9)	Acute Dermal LD50 Rabbit: 90 mg/kg Acute Inhalation LC50 Rat: 0,33 mg/l 4 hour Acute Oral LD50 Rat: 67 mg/kg
Methanol (67-56-1)	Acute Dermal LD50 Rabbit: 15800 mg/kg Acute Inhalation LC50 Rat: 85 mg/l 4 hour Acute Oral LD50 Rat: 5628 mg/kg

Acute toxicity Based on available data, the classification criteria are not met.



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Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
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.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.

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

Product	Species	Test Results	
DUSTREAT DC9119E (Dustsolv DS 919) (CAS Mixture)			
Aquatic			
Crustacea	LC50	Daphnia magna	475 mg/l, Acute toxicity, 48 hour, (Estimated)
	NOEL	Daphnia magna	77 mg/l, Acute toxicity, 48 hour, (Estimated)
Fish	LC50	Fathead minnow	589 mg/l, Acute toxicity, 96 hour, (Estimated)
	NOEL	Fathead minnow	282 mg/l, Acute toxicity, 96 hour, (Estimated)

12.2. Persistence and degradability

- COD (mgO ₂ /g)	121 (calculated data)
- BOD 5 (mgO ₂ /g)	0 (calculated data)
- BOD 28 (mgO ₂ /g)	0 (calculated data)
- TOC (mg C/g)	0 (calculated data)

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Methanol	-0,77
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	0,49

Bioconcentration factor (BCF)

Not available.

12.4. Mobility in soil

Not available.



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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 01 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.

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

Boric acid (CAS 10043-35-3)

Authorisations



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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

Boric acid (CAS 10043-35-3)	3
Methanol (CAS 67-56-1)	40

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

Methanol (CAS 67-56-1)
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (CAS 55965-84-9)

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
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

EC-No: European Commission Number
COD: Chemical Oxygen Demand
IATA: International Air Transport Association
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).

References

Safety data sheets of raw materials.

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).



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

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H360D May damage the unborn child.
H360F May damage fertility.
H370 Causes damage to organs.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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: 2,3,6,8,11,15,16