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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03 SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form: Trade name: Product code: Recommended application: Mixture Duraclean Ultra Duraclean Ultra Heat Transfer System Cleaner

Details of the supplier of the safety data sheet

Duratherm 5268 Highway Avenue, Jacksonville, FL 32254 Telephone: 1-905-984-6677 Qualified person's e-mail address: info@durathermfluids.com

Emergency telephone number:

Tel.: 1-905-984-6677

SECTION 2: Hazards identification

Classification of the substance or mixture

Asp. Haz 1 - H304

Label elements GHS label element:

Hazard nictograms:

Hazard pictograms: Signal word:



Hazard Statements: H304 Precautionary Statements P301/310/331

Classification system NFPA Rating: Health: 0, Fire:1, Reactivity:0 HMIS Rating: Health: 0, Fire:1, Reactivity:0

Other hazards

Other Hazards:

None known

SECTION 3: Composition/information on ingredients

Chemical Characterization: Classification according to GHS: Dangerous Components: Mixture Not classified Hydrocarbon, <22 cSt

This product is classified and labeled according to the Globally Harmonized System (GHS) GHS08 Danger

May be fatal if swallowed and enters airways

IF SWALLOWED. Immediately call a POISON CONTROL CENTRE. Do not induce vomiting

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JRATHFRM

Component Name	Identification	Classification according to GHS	%
Ester	CAS #: 53894-23-5	Not classified	20-75%
Hydrocarbon	CAS #: 8042-47-5	GHS08 Asp. Haz 1 – H304	20-50%
Proprietary Additives	Trade Secret	Not classified	5-10%

SECTION 4: First aid measures

Inhalation:	Supply person with fresh air and consult doctor according to symptoms.
Skin contact:	Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare),consult a doctor.
Eye contact	Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Ingestion	Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

Suitable extinguishing media: Unsuitable extinguishing media:

Description of first aid measures

Water jet spray/foam/CO2/dry extinguisher High volume water jet

Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon, toxic gases

Advice for firefighters

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to size of fire use full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions protective equipment: Environmental precautions:

Not required If leakage occurs, dam spillage and resolve leaks as soon as possible. Prevent fluid from entering drainage systems. If fluid accidently enters drainage system alert authorities

Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, oil-dry, sand, diatomaceous earth) and dispose in accordance with local regulations

Reference to other sections

See section 7 for information on safe handling, see Section 8 for information on personal protection equipment, see Section 13 for disposal information

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

Precautions for safe handling:

Information about protection against explosions or fires:

No special measures required No special measures required Page 3 of 6 Safety data sheet according to GHS Rev 03 Revised on / Version: 12/20/2016 Replaces revision of / Version: 05/25/2015 Valid from: 12/20/2016 DURACLEAN ULTRA



Requirements to be met by storerooms: General guidelines: Store in a cool dry place Ensure good ventilation; avoid contact with eyes or skin

Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work Keep away from food, drink and animal feed Remove contaminated clothing and protective equipment before entering areas in which food is consumed

SECTION 8: Exposure controls/personal protection

Control parameters

No further data; see Section 7

Exposure controls: Appropriate engineering controls:

Personal protective equipment: Hand protection:

Eye protection: Materials for protective clothing: Hand protection:

Respiratory protection:

Environmental exposure controls:
Consumer exposure controls:
Other:

Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully

PVC, neoprene, or nitrite gloves. Gloves should be replaced immediately if damaged or worn
Eye protection necessary where liquid could be splashed or sprayed
PVC, neoprene, or nitrite gloves
In case of repeated or prolonged contact wear gloves and use moisturizing skin cream
wIn areas with poor ventilation or in the case of likely misting use appropriate respiratory equipment
See section 12
PVC gloves. Neoprene or nitrile rubber gloves
Wash hands thoroughly after exposure. Do not eat drink or smoke during use. Wash contaminated clothing before use

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Color: Odor: Odor threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash Point ASTM D92 (COC): Evaporation Rate: Flammability (solid, gas) Lower explosive limit: Upper explosive limit: Density @ 20^oC: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water) Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties Oxidizing properties:

Liquid Light yellow, clear Characteristic Not determined Not determined Not determined Not determined $>195^{\circ}F(>90^{\circ}C)$ NA NA Not determined Not determined 0.84-0.87 g/ml NA Not determined Insoluble Not determined Not determined Not determined 5 cSt @ 40^oC NA Not determined

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Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined Not determined Not determined Not determined Not applicable

SECTION 10: Stability and reactivity

Reactivity: Chemical Stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: Stable under normal conditions Stable under normal conditions No dangerous reactions known See section 7 Strong oxidizing agents, acids No dangerous decomposition products known

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2 (classification).

Acute toxicity:

Not Classified

DURACLEAN ULTRA					
Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	
Acute toxicity, by inhalation:	LD50	>2500	mg/kg/ 4hr	Rat	

Skin corrosion/irritation:

Serious eye damage/irritation: Respiratory or skin sensitization: Repeated does toxicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Other information: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact may cause dermatitis Not classified Not classified

SECTION 12: Ecological information

DURACLEAN ULTRA					
Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Toxicity to fish:	LD50	>100,000	mg/kg /96hr	Trout	
Toxicity to daphnia:					n.d.a.
Toxicity to algae:					n.d.a.
Persistence and					n.d.a.
degradability:					
Bio-accumulative potential:					n.d.a.
Mobility in soil:					n.d.a.
Results of PBT and					n.d.a.
vPvB assessment:					
Other adverse effects:					n.d.a.

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SECTION 13: Disposal considerations

Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of **For contaminated packing material**

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld un-cleaned container.

SECTION 14: Transport information

Transport statements	
UN number	
DOT, ADN, IMDG, IATA:	Non-reg
ADR:	Non-reg
UN proper shipping name:	
DOT, ADR, ADN, IMDG, IATA:	Non-reg
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA:	Non-reg
Packaging Group	
DOT, ADR, IMDG, IATA:	Non-reg
Environmental hazards	
Marine pollutant:	No
Special precautions for users:	None
Transport in bulk according to Annex II:	
of MARPOL 73/78and IB Code UN	
"Model Regulation"	Not app

Non-regulated material Non-regulated material Non-regulated material Non-regulated material Non-regulated material No None

Not applicable

SECTION 15: Regulatory information

SARA Hazards:	ns/legislation specific for the substance or mixture No SARA Hazards
TSCA (Toxic Substances Control Act):	Hydrocarbon - <22 cSt – CAS# 72623-86-0
	All other chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances
Proposition 65:	Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65
Labeling requirements	

GHS label element:

This product is classified and labeled according to the Globally Harmonized System GHS08 Danger

Hazard pictograms: Signal word

Component Name	Identification	Classification according to GHS	%
Ester	CAS #: 53894-23-5	Not classified	20-75%
Hydrocarbon	CAS #: 8042-47-5	GHS08	20-50%
		Asp. Haz 1 – H304	
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SECTION 16: Other information

These details refer to the product as it is delivered.

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

ACArticle Categoriesacc., acc. toaccording, according toADRAccord européen relatif au transport international des marchandises Dangereuses par RouteArt., Art. no.Article numberATEAcute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)BODBiochemical oxygen demandCASChemical Abstracts ServiceCECCoordinating European Council for the Development of Performance Tests for Fuels, LubricantsCLPClassification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures)CTFACosmetic, Toiletry, and Fragrance Associatione.g.for example (abbreviation of Latin 'exempli gratia'), for instanceECEuropean CommunityECHAEuropean Chemicals AgencyEEAEuropean Economic CommunityEINECSEuropean Inventory of Existing Commercial Chemical SubstancesELINCSEuropean List of Notified Chemical SubstancesENEuropean Norms
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EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances
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EPA United States Environmental Protection Agency (United States of America)
ERC Environmental Release Categories
ES Exposure scenario
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
HMIS Hazardous Material Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC Intermediate Bulk Container
IBC (Code) International Bulk Chemical (Code)
IC Inhibitory concentration
LC lethal concentration
LC50 lethal concentration 50 percent kill
LD50 Lethal Dose, 50% kill
n.a. not applicable n.av. not available
n.c. not checked
n.d.a. no data available
NFPA National Fire Protection Association
ppm parts per million
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
WHO World Health Organization
wwt wet weight

These statements were made by:

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