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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Zenix™ DZ1040

Contaminant Control Agent

™ Trademark, Solenis or its subsidiaries or affiliates,

registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-844-SOLENIS (844-765-3647) / 606-329-5705
Solenis LLC	
500 Hercules Road	Product Information
Wilmington, Delaware 19808	1-844-SOLENIS (844-765-3647)
United States of America (USA)	
RegulatoryRequestsNA@solenis.com	
Tregulatory requests VA@SOIEIIIS.COIII	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin sensitization

: Category 1

GHS label elements

Hazard pictograms



Signal Word

: Warning

Hazard Statements

May cause an allergic skin reaction.

Precautionary Statements

: Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves.

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Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Halogenated Hydrocarbon	254504001-6449	Skin Corr. 1; H314	0.00 - < 0.10
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	

Trade Secret Composition - conceal identity + concentration

SECTION 4. FIRST AID MEASURES

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

Remove contact lenses.

Protect unharmed eye.

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If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

d

: No symptoms known or expected.

delayed

May cause an allergic skin reaction.

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

potassium oxide acrylate monomers nitrogen oxides (NOx)

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent further leakage or spillage if safe to do so.

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Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

: Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : General room ventilation should be adequate for normal

conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known,

suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection : Wear resistant gloves (consult your safety equipment

supplier).

Wear as appropriate:

Safety shoes

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Hygiene measures

: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Colour

: yellow

Odour

: slight

Odour Threshold

: No data available

рΗ

: 4.5 - 6

Melting point/freezing point

: 27 °F / -3 °C

Boiling point/boiling range

: No data available

Flash point

: > 200.1 °F / > 93.4 °C

Method: Pensky Martens closed cup

Evaporation rate

: < 1

n-Butyl Acetate

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: 24 hPa

Relative vapour density

: < 1AIR=1

Relative density

: No data available

Density

: 1.18 - 1.222 g/cm3 (25 °C)

Solubility(ies)

Water solubility

: soluble

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

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Thermal decomposition

: No data available

Viscosity

Viscosity, dynamic

: 174 mPa.s (21 °C)

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

Halogenated Hydrocarbon:

Acute inhalation toxicity

: (Rat): 0.33 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin corrosion/irritation

Not classified based on available information.

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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

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aquatic invertebrates

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity

: Not classified based on available information.

Chronic aquatic toxicity

: Not classified based on available information.

Components:

Halogenated Hydrocarbon:

Toxicity to fish

: LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203

LC 50 (Lepomis macrochirus (Bluegill sunfish)): 0.28 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

EC 50 (Daphnia magna (Water flea)): 0.16 mg/l

Exposure time: 48 h

Toxicity to algae

: EC 50 (Selenastrum capricornutum (green algae)): 0.018 mg/l

Exposure time: 72 h

NOEC (Selenastrum capricornutum (green algae)): 0.0099

mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.172 mg/l

Exposure time: 21 d

End point: Reproduction Test

see user defined free text (Daphnia magna (Water flea)):

0.572 mg/l

Exposure time: 21 d

End point: Reproduction Test

Toxicity to bacteria

: EC 50 (Bacteria): 5.7 mg/l

Exposure time: 16 h

Persistence and degradability

Components:

Halogenated Hydrocarbon:

Biodegradability

: Result: Inherently biodegradable.

Method: OECD Test Guideline 301B

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Stability in water

: Degradation half life: 17.3 h (25 °C)

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

Components:

Halogenated Hydrocarbon:

Additional ecological

information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice

: Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

REGOLATION							
	ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE	
			CLASS	HAZARDS	GROUP	POLLUTANT /	
						LTD. QTY.	

U.S. DOT - ROAD

Not dangerous goods	

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I.S. DOT - RAIL	
Not dangerous goods	
J.S. DOT - INLAND WATERWAYS	
Not dangerous goods	
FRANSPORT CANADA - ROAD	
Not dangerous goods	
FRANSPORT CANADA - RAIL Not dangerous goods	
Not dangerous goods	
FRANSPORT CANADA - INLAND WATERWAYS	
Not dangerous goods	
, , , , , , , , , , , , , , , , , , , ,	
NTERNATIONAL MARITIME DANGEROUS GOODS	
Not dangerous goods	
NTERNATIONAL AIR TRANSPORT ASSOCIATION - C	ARGO
Not dangerous goods	AROU
	·
NTERNATIONAL AIR TRANSPORT ASSOCIATION - F	'ASSENGER
Not dangerous goods	
MEXICAN REGULATION FOR THE LAND TRANSPOR	T OF HAZARDOUS MATERIALS AND WASTES
Not dangerous goods	
*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID	
Marine pollutant no	

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards

: Acute Health Hazard

SARA 313

Component(s)SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL

AICS

: On the inventory, or in compliance with the inventory

ENCS

: Not in compliance with the inventory

KECI

: On the inventory, or in compliance with the inventory

PICCS

: On the inventory, or in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA) Registration: Trade Secret

Trogloti ditom Trade George		
Chemical name	Identification number	
Halogenated Hydrocarbon	254504001-6449	

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/16/2017

Full text of H-Statements referred to under sections 2 and 3.

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H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Further information

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL: Occupational Exposure Limit
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value

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TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System