



SAFETY DATA SHEET

Great Lakes DP-45™

Version: 1.0

Revision Date: 03/31/2015

Print Date: 04/20/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Great Lakes DP-45™

Product Use Description: Fire retardant

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Fire retardant

Restrictions on use : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

Form	viscous liquid
Colour	amber
Odour	No data available

GHS Classification

Eye irritation : Category 2A
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

GHS Label element

Signal word : **Warning**



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Hazard pictograms

:



Hazard statements

:

H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Other hazards

:

None

Precautionary statements

:

Prevention:
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled

: Remove to fresh air.



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Get medical attention.

- In case of skin contact : Wash skin thoroughly with soap and water for at least 15 minutes.
If skin irritation occurs: Get medical advice/ attention.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed : If conscious, make the victim drink the following:
Drink 1 or 2 glasses of water.
Get medical attention immediately.
- Most important symptoms and effects, both acute and delayed : irritant effects
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : All conventional media are suitable.
- Specific hazards during firefighting : Burning produces noxious and toxic fumes.
Thermal decomposition can lead to release of irritating gases and vapours.
The product is not flammable.
- Specific extinguishing methods : In the event of fire, wear self-contained breathing apparatus.
Wear personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : For personal protection see section 8.
- Environmental precautions : Avoid release to the environment.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).



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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use personal protective equipment as required.
Avoid contact with skin, eyes and clothing.
Do not breathe vapours or spray mist.
Avoid repeated exposure.
Avoid prolonged contact.
- Conditions for safe storage : Keep container tightly closed.
Keep in a dry, cool and well-ventilated place.
Protect from contamination.
- Materials to avoid : Strong bases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

- Engineering measures : Adequate general ventilation is recommended when handling to control airborne levels.
Use with local exhaust ventilation.
Use mechanical ventilation for general area control.

Personal protective equipment

- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In the case of vapour formation use a respirator with an approved filter.
- Hand protection
Remarks : Neoprene gloves
- Eye protection : Safety glasses with side-shields
or
Safety goggles
- Skin and body protection : For personal hygiene purposes, use adequate clothing to prevent skin contact.
- Hygiene measures : Wash thoroughly after handling.
Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : viscous liquid
- Color : amber



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Odor	: No data available
Odour Threshold	: No data available
pH	: Not applicable
Melting point/range	: -20 °C
Boiling point/boiling range	: No data available
Evaporation rate	: No data available
Flash point	: > 510 °C Method: Cleveland open cup ASTM D 92
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.6
<u>Solubility(ies)</u>	
Water solubility	: 1 g/l (25 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 3,680 mPa.s (21 °C)
Viscosity, kinematic	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: None known.
Incompatible materials	: Strong bases



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Hazardous decomposition products : Hydrogen bromide
Bromine
Carbon dioxide (CO₂)
Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : > 5,000 mg/kg
Species: Rat

Acute dermal toxicity (Product) : > 2,000 mg/kg
Species: Rabbit

Skin irritation (Product) : Species: Rabbit
Result: Mild skin irritation

Eye irritation (Product) : Species: Rabbit
Result: slight irritation
Classification: Irritating to eyes.

Sensitisation (Product) : Buehler Test
Species: Guinea pig
Classification: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406

Genotoxicity in vitro (Product) : Ames test
negative
Method: Mutagenicity (Escherichia coli - reverse mutation assay)

Chromosome aberration test in vitro
negative

Genotoxicity in vivo (Product) : In vivo micronucleus test
negative

Further information (Product) : Other dangerous properties can not be excluded.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : LC50: > 1,000 mg/l
Exposure time: 96 h



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Species: Oncorhynchus mykiss (rainbow trout)
static test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates (Product) : EC50: 0.27 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
semi-static test Method: OECD Test Guideline 202

Toxicity to algae (Product) : ErC50: > 5.1 mg/l
Exposure time: 96 h
Species: Scenedesmus capricornutum (fresh water algae)
Analytical monitoring: yes
Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:
No data available

Mobility (Product) : Remarks:
No data available

Biodegradability (Product) : aerobic
Result: Readily biodegradable.
93 %

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information (Product) : Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste material in compliance with all federal, state, and local regulations.
Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION



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ADR

Not dangerous goods

RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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:**US.TSCA**

On TSCA Inventory

DSL

This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

AICS

Not in compliance with the inventory

NZIoC

Not in compliance with the inventory

ENCS

Not in compliance with the inventory



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KECI
PICCS
IECSC
CH INV

On the inventory, or in compliance with the inventory
On the inventory, or in compliance with the inventory
On the inventory, or in compliance with the inventory
The formulation contains substances listed on the Swiss
Inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.