

## SAFETY DATA SHEET

### Flotron™ M-45

#### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Flotron™ M-45

Other means of identification : Not applicable.

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Champion Company  
7705 Highway 90-A  
Sugar Land, Texas 77478  
USA  
TEL: (281) 263-7000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 07/08/2016

#### Section: 2. HAZARDS IDENTIFICATION

##### GHS Classification

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 3 (Respiratory system, Central Nervous System)  
- single exposure

Specific target organ toxicity : Category 2 (Nervous system)  
- repeated exposure

Aspiration hazard : Category 1

##### GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapour.  
Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs (Nervous system) through prolonged or repeated exposure.

## SAFETY DATA SHEET

### Flotron™ M-45

- Precautionary Statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
Do NOT induce vomiting.
- Other hazards : None known.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Light Aliphatic Naphtha	64742-89-8	30 - 60
Toluene	108-88-3	30 - 60

### Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.
- If swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam  
Carbon dioxide  
Dry powder  
Other extinguishing agent suitable for Class B fires

## SAFETY DATA SHEET

### Flotron™ M-45

For large fires, use water spray or fog, thoroughly drenching the burning material.

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer system.

#### Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Suitable material : Keep in properly labelled containers.
- Unsuitable material : not determined

#### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## SAFETY DATA SHEET

### Flotron™ M-45

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Light Aliphatic Naphtha	64742-89-8	TWA	500 ppm 2,000 mg/m3	OSHA Z1
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		STEL	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA/Z2
		CEIL	300 ppm	OSHA/Z2
		Peak	500 ppm	OSHA/Z2

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Wear suitable protective clothing.

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

#### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid  
Colour : clear, white  
Odour : strong, hydrocarbon-like  
Flash point : -1 °C  
pH : no data available  
Odour Threshold : no data available  
Melting point/freezing point : pour point: < -66 °C, ASTM D-97  
Initial boiling point and boiling range : 95.2 - 104.1 °C

## SAFETY DATA SHEET

### Flotron™ M-45

Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 78.6 - 115.8 hPa, (37.8 °C), ASTM D 6378,
Relative vapour density	: no data available
Relative density	: 0.7923 - 0.7949, (20 °C),
Density	: 0.7909 - 0.7935 g/cm <sup>3</sup>
Water solubility	: insoluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition temperature	: no data available
Viscosity, dynamic	: 2 - 5 mPa.s
Viscosity, kinematic	: 2.8 mm <sup>2</sup> /s (40 °C)
Molecular weight	: no data available
VOC	: no data available

### Section: 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides

### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Harmful if swallowed. May be fatal if swallowed and enters airways.

## SAFETY DATA SHEET

### Flotron™ M-45

- Inhalation : May cause respiratory tract irritation. May cause nose, throat, and lung irritation. Inhalation may cause central nervous system effects.
- Chronic Exposure : May cause cancer. Suspected of damaging fertility or the unborn child. May cause genetic defects.

#### Experience with human exposure

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : Vomiting
- Inhalation : Respiratory irritation, Cough, Dizziness, Drowsiness

#### Toxicity

##### Product

- Acute oral toxicity : Acute toxicity estimate: 999.78 mg/kg
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : no data available
- Respiratory or skin sensitization : no data available
- Carcinogenicity : no data available
- Reproductive effects : no data available
- Germ cell mutagenicity : no data available
- Teratogenicity : no data available
- STOT - single exposure : no data available
- STOT - repeated exposure : no data available
- Aspiration toxicity : no data available

#### Components

- Acute inhalation toxicity : Toluene  
LC50 rat: 28.1 mg/l  
Exposure time: 4 h

## Section: 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

- Environmental Effects : Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

## SAFETY DATA SHEET

### Flotron™ M-45

#### Components

Toxicity to fish : Toluene  
LC50 Oncorhynchus kisutch (coho salmon): 5.5 mg/l  
Exposure time: 96 h

#### Components

Toxicity to daphnia and other : Toluene  
aquatic invertebrates LC50 Ceriodaphnia dubia (water flea): 3.78 mg/l  
Exposure time: 48 h

#### Components

Toxicity to algae : Toluene  
EC50 Chlorella vulgaris (Fresh water algae): 134 mg/l  
Exposure time: 72 h

#### Components

Toxicity to bacteria : Toluene  
84 mg/l  
EC50 Nitrosomonas Sp.: 84 mg/l  
Exposure time: 24 h

#### Components

Toxicity to fish (Chronic : Toluene  
toxicity) NOEC: 1.39 mg/l  
Exposure time: 40 d  
Species: Oncorhynchus kisutch (coho salmon)

#### Components

Toxicity to daphnia and other : Toluene  
aquatic invertebrates NOEC: 0.74 mg/l  
(Chronic toxicity) Exposure time: 7 d  
Species: Ceriodaphnia dubia

#### Persistence and degradability

no data available

#### Mobility

no data available

#### Bioaccumulative potential

no data available

#### Other information

no data available

### Section: 13. DISPOSAL CONSIDERATIONS

## SAFETY DATA SHEET

### Flotron™ M-45

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated at the time of disposal to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

Proper shipping name : PETROLEUM DISTILLATES, N.O.S.  
Technical name(s) : Light Aliphatic Naphtha, Toluene  
UN/ID No. : UN 1268  
Transport hazard class(es) : 3  
Packing group : II  
Reportable Quantity (per package) : 2,000 lbs  
RQ Component : Toluene

#### Air transport (IATA)

Proper shipping name : PETROLEUM DISTILLATES, N.O.S.  
Technical name(s) : Light Aliphatic Naphtha, Toluene  
UN/ID No. : UN 1268  
Transport hazard class(es) : 3  
Packing group : II  
Reportable Quantity (per package) : 2,000 lbs  
RQ Component : Toluene

#### Sea transport (IMDG/IMO)

Proper shipping name : PETROLEUM DISTILLATES, N.O.S.  
Technical name(s) : Light Aliphatic Naphtha, Toluene  
UN/ID No. : UN 1268  
Transport hazard class(es) : 3  
Packing group : II

### Section: 15. REGULATORY INFORMATION



## SAFETY DATA SHEET

### Flotron™ M-45

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Toluene	108-88-3	1000	2000

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Acute Health Hazard  
Fire Hazard  
Chronic Health Hazard

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
Toluene 108-88-3 30 - 60 %

#### California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene

108-88-3

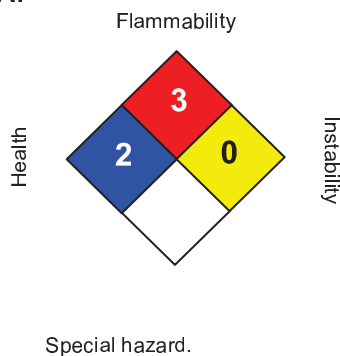
#### INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)  
On TSCA Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)  
All components of this product are on the Canadian DSL.

### Section: 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

## SAFETY DATA SHEET

### Flotron™ M-45

Revision Date : 07/08/2016  
Version Number : 1.4  
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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. For additional copies of an SDS visit [www.nalco.com](http://www.nalco.com) and request access.