



# SAFETY DATA SHEET

## HATCOL ® 3211

Version: 1.1

Revision Date: 11/03/2015

Print Date: 12/09/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: HATCOL ® 3211

Product Use Description: Lubricant

Company:

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

Manufacturer  
Hatco Division, Chemtura Corporation  
1020 King George Post Road  
Fords, NJ  
08863  
United States of America

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
: 703-527-3887

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 : Lubricant

### SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	clear
Odour	slight

### GHS Classification



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Skin sensitisation : Category 1  
Reproductive toxicity : Category 2  
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Liver, Kidney)  
Acute aquatic toxicity : Category 3  
Chronic aquatic toxicity : Category 2

### GHS Label element

Signal word : **Warning**

Hazard pictograms :



Hazard statements : H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H402 Harmful to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
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 soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Carcinogenicity:



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<b>IARC</b>	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.
<b>OSHA</b>	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.
<b>NTP</b>	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 (%)
tris(methylphenyl) phosphate	1330-78-5	>= 1 - < 5 %
NJTS-46728100000-0001		>= 1 - < 5 %
NJTS#: 46728100000-0002 - Proprietary amine		>= 1 - < 5 %

### SECTION 4. FIRST AID MEASURES

If inhaled	: If inhaled Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of bluish discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible. If symptoms persist, call a physician.
In case of skin contact	: In case of skin contact Wash off with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
In case of eye contact	: In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
If swallowed	: If swallowed, DO NOT induce vomiting. Consult a physician if necessary.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) Dry powder Foam Alcohol-resistant foam Water mist
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- Unsuitable extinguishing media : Water
- Specific extinguishing methods : In the event of fire, cool tanks with water spray.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.
- Environmental precautions : Should not be released into the environment. Do not contaminate water. Do not flush into surface water or sanitary sewer system.
- 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).

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Keep container closed when not in use. Do not use pressure to empty drums. Ensure all equipment is electrically grounded before beginning transfer operations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : Strong acids and strong bases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH



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### Personal protective equipment

- Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed.  
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  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Provide adequate ventilation.  
Do not breathe dust or spray mist.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : clear
- Odor : slight
- pH : Not applicable
- pour point : < -50 °C
- Boiling point/boiling range : No data available
- Flash point : > 254 °C  
Method: open cup
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative density : 0.99 (15.6 °C)

#### Solubility(ies)

- Water solubility : slightly soluble
- Partition coefficient: n-octanol/water : No data available
- Auto-ignition temperature : not determined
- Viscosity
- Viscosity, kinematic : No data available



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### SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Hazardous polymerisation does not occur.  
Conditions to avoid : Heat  
Incompatible materials : Strong acids and strong bases  
Hazardous decomposition products : Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Skin irritation  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (Component) : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
N-1-naphthylaniline (Component) : Species: Rabbit  
Result: No skin irritation  
Method: Draize Test

Eye irritation  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (Component) : Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
N-1-naphthylaniline (Component) : Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

Sensitisation  
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene : Species: Guinea pig  
Classification: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406



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(Component)

N-1-naphthylaniline

(Component)

: Maximisation Test (GPMT)

Species: Guinea pig

Classification: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

Patch Test

Species: Human

Classification: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

CMR effects

tris(methylphenyl) phosphate

(Component)

: Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: In vitro tests did not show mutagenic effects

Teratogenicity: Did not show teratogenic effects in animal experiments.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene

(Component)

: Mutagenicity: Not mutagenic in Ames Test

N-1-naphthylaniline

(Component)

: Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Further information (Product) : No data is available on the product itself.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish

tris(methylphenyl) phosphate

(Component)

: LC50: 0.75 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

LC50: > 100 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

LC50: 0.6 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)



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Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component)

: LC50: > 71 mg/l  
Exposure time: 96 h  
  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 203

N-1-naphthylaniline  
(Component)

: LC50: 0.44 mg/l  
Exposure time: 96 h  
  
Species: Oncorhynchus mykiss (rainbow trout)  
semi-static test Analytical monitoring: yes

Toxicity to daphnia and other  
aquatic invertebrates  
(Product)

: EC50: > 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Remarks:  
Information given is based on data obtained from similar substances.

Toxicity to algae  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component)

: EbC50: > 100 mg/l  
Exposure time: 72 h  
Species: Desmodesmus subspicatus (green algae)  
Method: OECD Test Guideline 201

Toxicity to bacteria  
tris(methylphenyl) phosphate  
(Component)

: EC50: > 100 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Respiration inhibition

N-1-naphthylaniline  
(Component)

: EC50: 2 mg/l  
Exposure time: 48 h  
Species: Protozoa

EC50: > 10,000 mg/l  
Exposure time: 3 h  
Species: Bacteria

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

N-1-naphthylaniline  
(Component)

: NOEC: 0.02 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes

Bioaccumulation  
N-1-naphthylaniline  
(Component)

: Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.1 mg/l





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Bioconcentration factor (BCF): 427 - 2,730

Biodegradability  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : Result: According to the results of tests of biodegradability this  
product is not readily biodegradable.  
Method: CO2 Evolution Test  
N-1-naphthylaniline : aerobic  
(Component) Result: According to the results of tests of biodegradability this  
product is not readily biodegradable.  
0 %  
Method: OECD Test Guideline 301

### Further information on ecology

Additional ecological : No information on ecology is available.  
information (Product)

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations.  
Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### DOT

UN number : 3082  
Description of the goods : Environmentally hazardous substances, liquid, n.o.s.  
(tris(methylphenyl) phosphate)  
(tris(methylphenyl) phosphate)  
Class : 9  
Packing group : III  
Environmentally hazardous : yes  
tris(methylphenyl) phosphatetris(methylphenyl)  
phosphatePhenyl-alpha-naphthylamine

### IATA

UN number : 3082  
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.  
(tris(methylphenyl) phosphate)  
(tris(methylphenyl) phosphate, Phenyl-alpha-naphthylamine)



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Class : 9  
Packing group : III  
Environmentally hazardous : no

### IMDG

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(tris(methylphenyl) phosphate)  
(tris(methylphenyl) phosphate, Phenyl-alpha-naphthylamine)  
Class : 9  
Packing group : III  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Marine pollutant : yes  
tris(methylphenyl) phosphatetris(methylphenyl) phosphatePhenyl-alpha-naphthylamine

Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

## SECTION 15. REGULATORY INFORMATION

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

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Chronic Health Hazard  
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.



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### US State Regulations

#### California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

aniline	62-53-3
1-naphthylamine	134-32-7
2-naphthylamine	91-59-8

#### 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

On the inventory, or in compliance with the inventory

##### NZIoC

On the inventory, or in compliance with the inventory

##### ENCS

On the inventory, or in compliance with the inventory

##### KECI

On the inventory, or in compliance with the inventory

##### PICCS

Not in compliance with the inventory

##### IECSC

On the inventory, or in compliance with the 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.