

## **MATERIAL SAFETY DATA SHEET**

# NOROX® PULCAT AW

Syrgis Performance Initiators, Inc.

Helena, AR

## **SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

NOROX® PULCAT AW 870-572-2935 PRODUCT NAME **TELEPHONE** Syrgis Performance Initiators, Inc. **MANUFACTURER** CHEMTREC (24hr) (USA) 800-424-9300 **ADDRESS** 334 Phillips 311 Rd., Helena, AR 72342 (Maritime/International) 703-527-3887 Methyl Isobutyl Ketone Peroxide (MIBKP) CHEMICAL NAME CAS NO. See section 2. CHEMICAL FAMILY Organic Peroxide - Ketone Peroxide **CHEMICAL FORMULA** Mixture.

## **SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NO.	<u>%</u>
Methyl Isobutyl Ketone Peroxide	37206-20-5	45
Diisobutyl Phthalate	84-69-5	36
Methyl Isobutyl Ketone	108-10-1	14
Methyl Benzoate	93-58-3	5

## **SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION**

PHYSICAL HAZARDS Organic Peroxide. Decomposition.

**HEALTH HAZARDS** Severe Irritant.

**EXPOSURE LIMITS** TLV: 50 PPM for MIBK.

**ROUTES OF EXPOSURE** 

Skin Contact Severe skin irritant, causes redness, blistering, and edema.

Eye Contact Eye contact causes severe corrosion and may cause blindness.

**Ingestion** Human systemic effects by ingestion: changes in structure or function of esophagus,

nausea, or vomiting, and other gastrointestinal effects.

**Inhalation** Moderately toxic by inhalation.

**EFFECTS OF OVER-EXPOSURE** Prolonged inhalation of vapors may cause mucous membrane irritation and vertigo.

There are no known medical conditions, which are recognized as being aggravated

by exposure.

## **SECTION 4 - FIRST-AID MEASURES**

**SKIN** Immediately remove any contaminated clothing. Wash contaminated area

thoroughly with soap and copious amounts of water for at least 15 minutes. If

irritation or adverse symptoms develop, seek medical attention.

**EYES** Remove any contact lenses at once. Flush eyes with water for at least 15 minutes.

Ensure adequate flushing by separating the eyelids with fingers. If irritation or

adverse symptoms develop, seek medical attention.

**INGESTION Do Not** induce vomiting. Drink plenty of water. Immediately call a physician. For

aid to physician, suggest local Poison Control Center.

**INHALATION** Remove to fresh air, if coughing, breathing becomes labored, irritation develops or

other symptoms develop, seek medical attention at once, even if symptoms develop

several hours after the exposure.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

**FLASH POINT**  $> 140^{\circ}F (60^{\circ}C), C.O.C.$ 

**FLAMMABLE LIMITS**AUTOIGNITION POINT

Not established.

Not established.

**EXTINGUISHING MEDIA** Water from a safe distance - preferably with a fog nozzle. In case of very small fires,

other means such as carbon dioxide, foam or dry chemical extinguishers may be effective. Dry chemical combined with MIBKP may re-ignite. Light water additives

may be particularly effective at extinguishing MIBKP fires. Firemen should be equipped with protective clothing and SCBA's. In case of fire

SPECIAL FIRE FIGHTING

**PROCEDURES** near storage area, cool the containers with water spray. If dry chemical is used to

extinguish an MIBKP fire, the extinguished area must be thoroughly wetted down with

water to prevent re-ignition.

UNUSUAL FIRE AND EXPLOSION

**HAZARDS** 

The heat of decomposition of the peroxides adds to the heat of the fire. Dry chemical

fire extinguishing agent may catalyze the decomposition.

Revised on: 9/18/07 Printed On: 11/13/2007 Page 1 of 4

# NOROX® PULCAT AW

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE

Dike spill to prevent runoff from entering drains, sewers, streams, etc. Wet spilled material with water and absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up using non-sparking tools and place in a clean polyethylene drum or a polyethylene pail. **DO NOT** place into a steel container, lined or unlined, as a decomposition may occur. Treat any contaminated cardboard packaging as hazardous waste. Wet container contents with additional water prior to sealing.

### **SECTION 7 - HANDLING AND STORAGE**

HANDLING Rotate stock using the oldest material first. Avoid contact with skin, eyes and

clothing. Use PPE as specified in Section 8. Keep containers closed to prevent contamination. Keep away from sources of heat, sparks or flame. Do not add to hot solvents or monomers as a violent decomposition and/or reaction may result. When using spray equipment, never spray raw MIBKP onto curing or into raw resin or flues. Keep MIBKP in its original container. DO NOT USE NEAR FOOD OR DRINK.

Wash thoroughly after handling.

**STORAGE** The stability of MIBKP formulations is directly related to the shipping and storage

temperature history. Cool storage at 80°F (27°C)or below is recommended for longer shelf life and stability. Prolonged storage at elevated temperatures of 100°F (38°C) and higher will cause product degradation, gassing and potential container rupture which can result in a fire and/or explosion. Store out of direct sunlight in a well ventilated area away from combustible and incompatible materials. DO NOT STORE WITH FOOD OR DRINK. Refer to NFPA 432 Code for the Storage of Organic Peroxide Formulations from the National Fire Protection Association for

additional storage information.

OTHER PRECAUTIONS Unmixed, uncontaminated material, remaining at the end of the day, shall be

returned to a proper organic peroxide storage area. Under no circumstances should

material be returned to the original container.

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

**VENTILATION** Mechanical, general.

RESPIRATORY PROTECTION If airborne concentrations are expected to exceed acceptable levels wear a NIOSH

approved air-purifying respirator with an organic vapor cartridge or canister. When

using respirators refer to OSHA's 29CFR 1910.134.

**EYE PROTECTION** Safety goggles recommended. Permanent eyewash is highly recommended.

HAND PROTECTION Protective gloves recommended, solvent resistant, such as butyl rubber, nitrile or

neoprene.

OTHER A safety shower and eyewash is recommended when the risk of a significant

exposure exits.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Water white liquid with a noticeable odor.

BOILING POINT: Not established. SPECIFIC GRAVITY: 1.0

VAPOR PRESSURE: Not established. FLASH POINT: >140°F (60°C), C.O.C. VAPOR DENSITY: >1 FLAMMABLE LIMITS: Not established.

VAPOR DENSITY:>1FLAMMABLE LIMITS:Not established.EVAPORATION RATE:Not established.SADT:>60°C (140°F)% VOLATILE BY VOLUME:Not established.pH:Not applicable.

**SOLUBILITY IN WATER:** Slightly soluble in water.

# NOROX® PULCAT AW

### **SECTION 10 - STABILITY AND REACTIVITY**

STABILITY Stable when kept in original, closed container, out of direct sunlight at temperatures

below 80°F (27°C).

**CONDITIONS TO AVOID** Contamination. Direct sunlight. Open flames. Prolonged storage above 100°F

(38°C). Storage above SADT. Storage near flammable or combustible materials.

MATERIALS TO AVOID Dimethylaniline, cobalt napthenate and other promoters, promoted resins,

accelerators, oxidizing and reducing agents, strong acids, bases, metals, metal

alloys and salts, sulfur compounds, amines or any hot material.

HAZARDOUS DECOMPOSITION

**PRODUCTS** 

HAZARDOUS POLYMERIZATION Will not occur.

Decomposition products are flammable. Acrid smoke and irritating fumes.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### Methyl Isobutyl Ketone Peroxide

**Hazard Data:** 

Inhalation: Rat-- $LC_{50}$ : 1.5 mg/l-4hr. Oral: Rat-- $LD_{50}$ : 1700 mg/kg.

**Diisobutyl Phthalate** 

**Hazard Data:** 

Oral: Rat--LD<sub>50</sub>: 15 g/kg.

Methyl Isobutyl Ketone

Hazard Data:

**Dermal:** Rabbit--LD $_{50}$ : >20,000 mg/kg. **Inhalation:** Mouse--LC $_{50}$ : 23,000 mg/.

Oral: Rat--LD<sub>50</sub>: 2080 mg/kg.

Methyl Benzoate Hazard Data:

Oral: Mouse--LD<sub>50</sub>: 3330 mg/kg; Rabbit--LD<sub>50</sub>: 2170 mg/kg Rat--LD<sub>50</sub>: 1177 mg/kg.

Skin: Cat--LD<sub>Lo</sub>: 10g/kg.

### **SECTION 12 - ECOLOGICAL INFORMATION**

No data is available on the preparation itself. The product should be prevented from entering drains, sewers, streams, etc.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Prevent material from entering drains, sewers, streams, etc.

Immediately dispose of waste material at a RCRA approved hazardous waste management facility in accordance with federal, state and local regulations.

## **SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID

(METHYL ISOBUTYL KETONE PEROXIDE, ≤45%)

DOT Hazard Class: 5.2 UN/NA ID No.: UN3105 DOT Packing Group: PG II

Labels: 5.2 (Organic Peroxide)

**2004 ERG GUIDE NO.:** 145

# NOROX® PULCAT AW

# **SECTION 15 - REGULATORY INFORMATION**

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

 Chemical Name
 CAS Number
 Percent

 Diisobutyl Phthalate
 84-69-5
 36

 Methyl Isobutyl Ketone
 108-10-1
 14

#### **Australian Inventory of Chemical Substances (AICS)**

The ingredients in this product are listed in the Australian AICS Inventory.

#### **Canadian Domestic Substances List (DSL)**

The ingredients in this product are listed in the Canadian DSL Inventory.

#### Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)

The ingredients in this product are listed in the Chinese IECSC Inventory.

#### **European Inventory of Existing Commercial Chemical Substances (EINECS)**

The ingredients in this product are listed in the European EINECS Inventory.

#### **US Toxic Substances Control Act (TSCA)**

The ingredients in this product are listed in the US Toxic Substances Control Act (TSCA) Inventory.

#### Status of Carcinogicity

Not recognized as a carcinogen by the IARC, NTP or OSHA.

## **SECTION 16 - OTHER INFORMATION**

#### **VOC Information**

Using ASTM Test Method D-2369-87, but at 40°C (since MIBKP decomposes rapidly above 100°C), Norox<sup>®</sup> PULCAT AW contains 13.8% VOC, by weight, or 134 grams per liter. For more information call Syrgis Performance Initiators, Inc.

#### NFPA 432 Organic Peroxide Classification

Class III

NFPA 704 RatingHMIS RatingHealthFlammabilityReactivityHealthFlammabilityReactivity322322

MSDS Reference: Pulcat AW MSDS 0709.1

#### DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.