

## 01 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT NAME	N-CYCLOHEXYLTHIO PHTALIMIDE
SUPPLIER	MLPC International 209 Avenue Charles DESPIAU 40370 RION DES LANDES Tel : 33-5-58-57-02-00 (International) 05-58-57-02-00 (France) Fax : 33-5-58-57-02-05 (International) 05-58-57-02-05 (France)
Emergency telephone number	33-5-58-57-02-00 (International) 05-58-57-02-00 (France)
ORPHILA	33-1-45-42-59-59 (International) 01-45-42-59-59 (France)

## 02 - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS	SAFETY INFORMATION : PLEASE READ THIS SHEET CAREFULLY
HEALTH EFFECTS	May cause sensitization by skin contact.
ENVIRONMENTAL EFFECTS	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
PHYSICAL AND CHEMICAL HAZARDS	In contact with acids, liberates toxic gases (SOx and NOx).
SPECIFIC HAZARDS / EC	IRRITANT AND DANGEROUS FOR THE ENVIRONMENT May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 03 - COMPOSITION / INFORMATION ON INGREDIENTS

GENERIC NAME	Vulcanization retarder.
CAS	17796-82-6 N-CYCLOHEXYLTHIO PHTALIMIDE PARAFFINIC OIL THERMOPLASTIC
EINECS / ELINCS	241-774-1 N-CYCLOHEXYLTHIO PHTALIMIDE PARAFFINIC OIL THERMOPLASTIC
CHEMICAL NATURE OF THE PREPARATION	DISPERSION OF N-CYCLOHEXYLBENZOTHAZOL-2-SULFENAMID (75-80 %) IN THERMOPLASTIC
ADDITIVES	Paraffinic oil (10 %) PCA's (IP346) < 3% No CE labelling
HAZARDOUS COMPONENTS	N-CYCLOHEXYLTHIO PHTALIMIDE (80 %)

## 04 - FIRST AID MEASURES

GENERAL ADVICE	.
INHALATION	Move to fresh air. Consult a doctor.
SKIN CONTACT	Wash immediately and abundantly with water. In case of important contact : seek a medical advice.
EYE CONTACT	Wash immediately and abundantly with water for at least 15 minutes. If irritation persists, consult an ophthalmologist.
INGESTION	Get a medical help.

## 05 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Water spray, foam, dry powder.
EXTINGUISHING MEDIA WHICH ARE NOT SUITABLE	All other extinguishants.
SPECIFIC HAZARDS	Thermal decomposition in : SOx, NOx.
SPECIFIC METHODS	Remove the combustible products. Hose down gases / fumes / dust with water spray.

SPECIAL PROTECTIVE EQUIPMENT FOR  
FIREFIGHTERS

Wear a self-contained breathing apparatus.

## 06 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

Avoid contact with skin, eyes and inhalation of dust.

ENVIRONMENTAL PROTECTION

Do not let the product enter into drains.  
Do not contaminate surface water.

METHODS FOR CLEANING UP

.

Recovery

Shovel up.  
Recover the product and place in a dry labelled container.

Disposal

To eliminate in an authorized incineration station or otherwise in compliance with law enforced regulations.

## 07 - HANDLING AND STORAGE

HANDLING

.

Technical measures / Precautions

Storage and handling precautions applicable to products : DUST FORMING.  
Provide appropriate exhaust and ventilation at machinery.  
Provide appropriate device to allow to rinse eyes.

Safe handling advice

If dust is formed, wear a dust mask.

STORAGE

.

Technical measures / Storage conditions

Store protected from moisture and heat.

Incompatible products

Oxidants, strong acids.

PACKAGING MATERIALS

.

Recommended

Boxes with polyethylene liner or polyethylen bags..

## 08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE PROVISIONS

Provide sufficient air exchange and/or exhaust in work areas.

CONTROL PARAMETERS

.

Exposure limits

Dusts : 2.5 mg/m<sup>3</sup> (TLV) BRMA.

PERSONAL PROTECTION EQUIPMENT

.

Respiratory protection

Dust mask.

Hand protection

Gloves.

Eye protection

Safety glasses.

Skin and body protection

Protective clothing.

Specific hygiene measures

Maintain strict body hygiene.  
Avoid contact with skin, eyes and inhalation of dust.

## 09 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE (20°C)

Solid.

COLOR

White.

ODOUR

Characteristic.

pH

Not applicable.

BOILING POINT / RANGE

Not applicable.

MELTING POINT / RANGE

100 - 105 °C

FLASH POINT

No data available.

EXPLOSIVE LIMITS

.

Lower

No data available.

Higher

No data available.

BULK DENSITY

1150 kg/m<sup>3</sup> (20 °C)

SOLUBILITY	.
Water	Insoluble.
Solvents	Alcohols, aceton, chloroform.
PARTITION COEFFICIENT (n-octanol / water)	log Pow = 3.66

## 10 - STABILITY AND REACTIVITY

MATERIALS TO AVOID	Acids.
HAZARDOUS DECOMPOSITION PRODUCTS	Nitrogen oxides, carbon dioxide, sulfur oxides.
FURTHER INFORMATION	Thermal decomposition in toxic products : SOx, NOx

## 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	.
Inhalation	No data available.
Ingestion	LD50 / oral / rat : 2600 mg/kg
Skin-contact	LD50 / dermal / rabbit : 5010 mg/kg
LOCAL EFFECTS	.
Inhalation	No data available.
Skin-contact	Repeated or prolonged exposure may cause skin irritations.
Eye-contact	No data available.
SENSITIZATION	.
Skin-contact	Risk of skin sensitization.

## 12- ECOLOGICAL INFORMATION

AQUATIC TOXICITY	.
Acute toxicity	Fish : LEPOMIS MACROCHIRUS LC50, 96 hours : 1.2 mg/l PIMEPHALES PROMELAS LC50, 96 hours : 0.42 mg/l Daphnia : DAPHNIA MAGNA CE(I)50, 48 hours : 32 mg/l Algae : SELENASTRUM CAPRICORNUTUM CI50, 96 hours : 22 mg/l

## 13 - DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT	To eliminate in an authorized incineration station or otherwise in compliance with law enforced regulations.
DISPOSAL OF PACKAGING	To eliminate as industrial or dangerous disposals in function of the nature and degree of pollutions.

## 14 - TRANSPORT INFORMATION

UN Number	3077
ADR / RID	Class : 9 Packaging group : III
* Prescriptions RID / ADR	Labels : 9 + dangerous for the environment
IMDG	Class : 9 Packaging group : III
* Prescriptions IMDG	Labels : 9 + dangerous for the environment
IATA	Class : 9 Packaging group : III
Prescriptions IATA	Labels : 9 (miscellaneous) + dangerous for the environment Passengers : Packaging instruction 911 (no restricted quantity by package) Cargo : Packaging instruction 911 (no restricted quantity by package) Special disposition : A 97

FURTHER REGULATORY INFORMATION

DOT (USA) and TDG (CANADA) No data available.

**15 - REGULATORY INFORMATION**

EEC DIRECTIVE

SAFETY DATA SHEETS

EC CLASSIFICATION / LABELLING

DANGEROUS PREPARATIONS

SAFETY DATA SHEET

DANGEROUS PREPARATION

.

D.91/155/EEC amended by D.2001/58/CE : Dangerous substances and preparations.

D. 2001/59/EEC amended by D. 2004/73/EEC : (29 rd APT)

Xi (IRRITANT) / N (DANGEROUS FOR ENVIRONMENT)

R 43 May cause sensitization by skin contact.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 22 Do not breathe dust.

S 24 Avoid contact with skin.

S 37 Wear suitable gloves.

S 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

D.2001/58/EC du 27/07/2001

France : Arrêté du 9 novembre 2004 définissant les critères de classification et les conditions d'étiquetage et d'emballage des préparations dangereuses et transposant la directive 1999/45/CE du Parlement européen et du Conseil du 31 mai 1999.

**16 - OTHER INFORMATION**

BIBLIOGRAPHY REFERENCES

Chemical Name :

Risk Phrases

Toxicity and safe handling of rubber chemicals (BRMA 1999).  
 Dangerous properties of industrial chemicals (SAX 6th edition).  
 Registry of toxic effects of chemicals substances (RTECS of NIOSH).  
 Aquatic toxicology (VAN LEEUWEN 1985).  
 INRS documentation.

N-CYCLOHEXYLTHIOPHTALIMID

R43, R50/53

This information applies to the PRODUCT AS SUCH and conforming to specifications of MLPC International.  
 In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.  
 The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.  
 Users are advised of possible additional hazards when the product is used in application for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.  
 The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.  
 It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.  
 It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product.  
 The ( \* ) indicate the modifications compared to the previous version.