



## SAFETY DATA SHEET RELEASE AGENT

RS REACH MSDS Date 01/11/07

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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### 2 HAZARDS IDENTIFICATION

Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

CLASSIFICATION Xn;R48/20, R65. Rep 3;R62. Xi;R38. F;R11. N;R51/53. R67.

#### HUMAN HEALTH

Possible risk of impaired fertility.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CYCLOHEXANE	203-806-2	110-82-7	1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE-norm	203-777-6	110-54-3	60-100%	F;R11 Repr3;R62 Xn;R65,R48/20 Xi;R38 R67 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Do not breathe vapour. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

DO NOT INDUCE VOMITING! Get medical attention.

#### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water. Keep run-off water out of sewers and water sources. Dike for water control.

## RELEASE AGENT

### SPECIFIC HAZARDS

Highly flammable. Avoid breathing fire vapours. May travel considerable distance to source of ignition and flash back.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Warn everybody of potential hazards and evacuate if necessary. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS

Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

Absorb spillage with non-combustible, absorbent material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Observe good industrial hygiene practices. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Do not smoke, use naked flames or other sources of ignition. Storage tanks and other containers must be grounded. Take precautionary measures against static discharges.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a well-ventilated place. Keep away from heat, sparks and open flame.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
CYCLOHEXANE	WEL	100 ppm	350 mg/m3	300 ppm	1050 mg/m3
HEXANE-norm	WEL	20 ppm	72 mg/m3		

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash, quick drench.

### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

### RESPIRATORY EQUIPMENT

Use respiratory equipment with gas filter, type A2.

### HAND PROTECTION

Wear protective gloves. Use protective gloves made of: Rubber or plastic.

### EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

### HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke. Change work clothing daily before leaving work place.

### SKIN PROTECTION

Protection suit must be worn.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

## RELEASE AGENT

APPEARANCE	Liquid		
COLOUR	Clear		
ODOUR	Oil smell		
BOILING POINT (°C)	68	MELTING POINT (°C)	not determined
RELATIVE DENSITY	0.72 20	pH-VALUE, CONC. SOLUTION	7 @ 25 C
FLASH POINT (°C)	>-17.7	FLAMMABILITY LIMIT - LOWER(%)	1.0
FLAMMABILITY LIMIT - UPPER(%)	8.0		

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions and recommended use.

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

#### MATERIALS TO AVOID

Avoid contact with oxidising agents

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours/gases/fumes of: Aldehydes.

### 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50                      28710 mg/kg (oral rat)

#### INHALATION

Vapour from this chemical can be hazardous when inhaled. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### SKIN CONTACT

Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

#### HEALTH WARNINGS

Possible risk of impaired fertility.

### 12 ECOLOGICAL INFORMATION

#### ECOTOXICITY

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### MOBILITY

Do not discharge onto the ground or into water courses.

#### WATER HAZARD CLASSIFICATION

WGK 3

### 13 DISPOSAL CONSIDERATIONS

#### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

#### WASTE CLASS

08 04 99

### 14 TRANSPORT INFORMATION

## RELEASE AGENT



UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	HEXANES	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1208	HAZARD No. (ADR)	33
ADR CLASS NO.	3	HAZCHEM CODE	3YE
ADR PACK GROUP	II	RID CLASS NO.	3
ADR LABEL NO.	3	UN NO. SEA	1208
CEFIC TEC(R) NO.	30GF1-I+II	IMDG PACK GR.	II
RID PACK GROUP	II	MFAG	See Guide
IMDG CLASS	3	UN NO. AIR	1208
EMS	F-E, S-D	AIR PACK GR.	II
MARINE POLLUTANT	No.		
AIR CLASS	3		

### 15 REGULATORY INFORMATION

#### LABELLING



Harmful



Highly Flammable



Dangerous for the environment

#### CONTAINS

HEXANE-norm

#### RISK PHRASES

R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

#### SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well-ventilated areas.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## RELEASE AGENT

### 16 OTHER INFORMATION

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DATE	26.11.2007
RISK PHRASES IN FULL	
R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

#### DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.