



Safety Data Sheet dated 22/6/2009, version 5

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name: CATALYST FOR FP285  
Trade code: C285  
Product type and use: Catalyst  
Company:  
INDUSTRIA CHIMICA ADRIATICA S.p.a. Z. Ind. A - v. S. Pertini, 52 62012 Civitanova  
Marche (MC) ITALY  
Emergency telephone number of the company and/or of an authorised advisory centre:  
ICA Spa - Tel. + (39) 733 8080 Fax. + (39) 733 808140  
Competent person responsible for the safety data sheet:  
icalab1@icaspa.com

#### 2. HAZARD IDENTIFICATION

Properties / Symbols:  
<SYMB,F> F Highly flammable  
<SYMB,Xn> Xn Harmful  
<SYMB,Xi> Xi Irritant  
R Phrases:  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R36 Irritating to eyes.  
R42 May cause sensitization by inhalation.  
R66 Repeated exposure may cause skin dryness or cracking.

#### 3. COMPOSITION/INFORMATION ON COMPONENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

26% - 33% n-butyl acetate  
N.67/548/CEE: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1  
R10-66-67; substance with a Community workplace exposure limit  
  
25% - 30% ethyl acetate  
N.67/548/CEE: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4  
F,Xi; R11-36-66-67  
  
7% - 10% xylene  
N.67/548/CEE: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7  
Xn,Xi; R10-20/21-38  
  
0.1% - 0.3% 4,4'-methylenediphenyl diisocyanate  
N.67/548/CEE: 615-005-00-9 CAS: 101-68-8 EC: 202-966-0  
Xn,Xi; R20-36/37/38-42/43  
  
0.05% - 0.2% Toluene-2,4,6-triisocyanate  
N.67/548/CEE: 615-006-00-4 CAS: 26471-62-5 EC: 202-039-0  
Carc. Cat. 3,T+,Xn,Xi; R26-36/37/38-40-42/43-52/53

Please consult chapter 16 of this SDS for full text of mentioned Risk-phrases.

#### 4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.  
Contact with skin:  
Immediately take off all contaminated clothing.  
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.  
Contact with eyes:  
Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye

specialist).

Wash immediately with water for at least 10 minutes, holding the eye open. Obtain medical attention.

Swallowing:

Wash out mouth with water.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

---

## 5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

Chemical powders, CO<sub>2</sub>. Use foam or water only in case of serious fire.

Extinguishers not allowed/not suitable:

Water jet.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

---

## 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination in open containers (develops of CO<sub>2</sub>). The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

---

## 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

Keep away from water or from damp surroundings.

Storage conditions:

Always keep the containers tightly closed.

Keep this product in a dry place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use adequate protective respiratory equipment.

Protection for hands:

Use protective gloves that provides comprehensive protection.

Eye protection:

Safety Data Sheet  
CATALYST FOR FP285

Use close fitting safety goggles and/or visor.

Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Exposure limit(s) (ACGIH):

n-butyl acetate

TLV TWA: 150 ppm - 713 mg/m<sup>3</sup> TLV STEL: 200 ppm - 950 mg/m<sup>3</sup>

ethyl acetate

TLV TWA: 400 ppm - 1440 mg/m<sup>3</sup> TLV STEL: 300-325 ppm

xylene

VLE 8h: 221 mg/m<sup>3</sup> - 50 ppm VLE short: 442 mg/m<sup>3</sup> - 100 ppm TLV TWA: 100 ppm, A4 - 434 mg/m<sup>3</sup>, A4

TLV STEL: 150 ppm, A4 - 651 mg/m<sup>3</sup>, A4

4,4'-methylenediphenyl diisocyanate

TLV TWA: 0,01 ppm - 0,05 mg/m<sup>3</sup> TLV STEL: 0.02 ppm - 0.14 mg/m<sup>3</sup>

Toluene-2,4/2,6-di-isocyanate

TLV TWA: 0.005 ppm - 0.036 mg/m<sup>3</sup> TLV STEL: 0.02 ppm - 0.14 mg/m<sup>3</sup>

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Liquid colourless
Odour:	Characteristic
pH:	N. A.
Boiling point:	77 °C
Flash point:	- 3 °C
Relative density:	0.94 - 1.04 kg/l
Solubility in water:	Insoluble
Vapour density:	> 1

---

## 10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid accumulating electrostatic charge.

Substances to avoid:

Avoid contact with water, alcohol, amines, strong alkaline substances because they react.

It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products:

Oxides of carbon.

---

## 11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

n-butyl acetate

Low order of acute toxicity. Oral LD50 (rat): > 4.7 g/kg. Inhalation LC50 (rat): 9.6 - 29.2 mg/litre/4h. Dermal

LD50 (rabbit): > 5 g/kg. No known reports of skin sensitisation.

ethyl acetate

Low order of acute toxicity. Oral LD50 (rat) : 5.6 g/kg. Inhalation LC50 (rat) : 56 mg/litre/4h. Dermal LD50

(rabbit) : > 18 g/kg.

xylene

Penetration through: inhalation, ingestion and in contact with skin. Oral LD50 (rat): 5 g/kg. Inhalation LC50 (rat): 6700 ppm/4 h.

4,4'-methylenediphenyl diisocyanate

Oral LD50 (rat): > 5 g/kg. Dermal LD50 (rabbit): > 5 g/kg. Inhalation LC50 (rat): 0.49 mg/l (4h).

Toluene-2,4/2,6-di-isocyanate

Oral LD50 (rat) = 6170 mg/Kg.

Basing on the properties of isocyanates, this chemical compound can cause intense irritation and/or sensitization of the respiratory system with possible asthmatic manifestation and considerable respiratory difficulties.

In case of asma or chronic bronchitis, do not handle the product.

## 12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.  
Prevent product entering water courses, sewers and prevent penetration of the product into the earth.  
The product reacts with water and develops CO<sub>2</sub> and a solid insoluble.

---

## 13. DISPOSAL

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.  
Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

---

## 14. TRANSPORT INFORMATION

ADR-UN Number:	1866
ADR/RID Class:	3
ADR-Superior Number:	33
ADR-Shipping Name:	Resin solution
ADR-Label:	3
ADR-Packing Group:	II
IATA-UN Number:	1866
IATA-Class:	3
IATA-Packing group:	II
IMDG-UN Number:	1866
IMDG-Class:	3
IMDG-Technical name:	Resin solution
IMDG-Packing group:	II

---

## 15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

<SYMB,Xn> Xn Harmful  
<SYMB,F> F Highly flammable

R Phrases:

R11 Highly flammable.  
R20 Harmful by inhalation.  
R36 Irritating to eyes.  
R42 May cause sensitization by inhalation.  
R66 Repeated exposure may cause skin dryness or cracking.

S Phrases:

S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour.  
S25 Avoid contact with eyes.  
S33 Take precautionary measures against static discharges.  
S36/37 Wear suitable protective clothing and gloves.  
S51 Use only in well-ventilated areas.

Contents:

4,4'-methylenediphenyl diisocyanate  
Toluene-2,4/2,6-di-isocyanate

Special Provisions:

Contains isocyanates. See information supplied by the manufacturer.

Volatile Organic compounds - VOCs = 66% - 68%

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 41 - 43

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

---

16. OTHER INFORMATION

Text of R phrases used in paragraph 3

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R26 Very toxic by inhalation.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitization by inhalation and skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

---