

**INDURITORE EC-GREEN**

Version 2

Print Date 14/12/2004

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Product name : INDURITORE EC-GREEN

Product code : L0000328

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**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature** : Acid compound**Hazardous components** :

Components	CAS-No.	EEC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Phosphoric Acid	7664-38-2	015-011-00-6	C	R34	>= 1 - < 3
Toluene	108-88-3	601-021-00-3	Xn, F	R11, R65, R38, R63, R67, R48/20	>= 10 - < 12,5
Xylene	1330-20-7	601-022-00-9	Xn	R20/21, R38, R10	>= 20 - < 30
Ethanol	64-17-5	603-002-00-5	F	R11	>= 20 - < 30
Isopropyl Alcohol	67-63-0	603-117-00-0	F, Xi	R11, R36, R67	>= 7 - < 10
N-Butyl Acetate	123-86-4	607-025-00-1		R10, R66, R67	>= 20 - < 30

**3. HAZARDS IDENTIFICATION**

Harmful



Highly flammable

**Hazardous components** : XyleneToluene**R-phrase(s)** :

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Highly flammable.  
Harmful by inhalation and in contact with skin.  
Irritating to skin.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Possible risk of harm to the unborn child.  
Harmful: may cause lung damage if swallowed.

**S-phrase(s) :**

Do not breathe spray.  
Avoid contact with skin.  
Wear suitable protective clothing and gloves.  
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**4. FIRST AID MEASURES**

General advice : When symptoms persist or in all cases of doubt seek medical advice.  
Never give anything by mouth to an unconscious person.

After Inhalation : Remove to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious place in recovery position and seek medical advice.

After Skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Do NOT use solvents or thinners.  
Put shower on working place

After Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes,  
holding the eyelids apart.  
Remove contact lenses.  
Seek medical advice.  
Put eye-washer on working place

After Ingestion : If accidentally swallowed obtain immediate medical attention.  
Keep at rest.  
Do not induce vomiting.

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Keep containers and surroundings cool with water spray.

Extinguishing media which must not be used for safety reasons : Do NOT use water jet.

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Specific hazards during fire fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions : Try to prevent the material from entering drains or water courses.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Clean with detergents. Avoid solvents.  
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice : Refer to section 15 for specific national regulation.

**7. HANDLING AND STORAGE**

**Handling**

Safe handling advice : Avoid exceeding of the given occupational exposure limits (see section 8).  
Use only in area provided with appropriate exhaust ventilation.  
Avoid contact with skin, eyes and clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid inhalation of vapour or mist.  
For personal protection see section 8.  
Thoroughly mix before using  
After using, store in a well-sealed container

Advice on protection against fire and explosion : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.  
When transferring from one container to another apply earthing measures and use conductive hose material.  
No sparking tools should be used.  
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
No smoking.

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**Storage**

Requirements for storage areas and containers : Observe label precautions.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.  
Electrical installations / working materials must comply with the technological safety standards.  
Keep away from sources of ignition - No smoking.  
Store between 5° an 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.  
Store in accordance with the particular national regulations.

Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value [mg/m <sup>3</sup> ]	Value [ppm]	Basis
Phosphoric Acid	7664-38-2	1,00		
Toluene	108-88-3	188,00	50,00	
Xylene	1330-20-7	221,00	50,00	
Ethanol	64-17-5	1.880,00	1.000,00	
Isopropyl Alcohol	67-63-0	983,00	400,00	
N-Butyl Acetate	123-86-4	713,00	150,00	

**Personal protective equipment**

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.  
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.

Hand protection : For prolonged or repeated contact use protective gloves.  
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.  
Skin should be washed after contact.  
Wash your hands and put on barrier creams

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Skin should be washed after contact.  
Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.  
Personnel should wear protective clothing

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Workers should wear antistatic footwear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	:	liquid
Flash point	:	0 - < 21 °C
Density	:	0,85 g/cm <sup>3</sup>
Solids by weight	:	1 %

**10. STABILITY AND REACTIVITY**

Conditions to avoid	:	Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions. Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.
Hazardous reactions	:	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**11. TOXICOLOGICAL INFORMATION**

Acute inhalation toxicity	:	Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Inhalation of airborne droplets may cause irritation of the respiratory tract.
Skin irritation	:	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin.
Note	:	The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

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Toluene

**OBSERVATIONS ON HUMAN SUBJECTS - NON PROFESSIONAL EXPOSURE :** Effects due to an acute exposure : A test made on a group of people exposed to 50-800 ppm inhalation for 8 hours gave the following outcome: 200 ppm: light but definite diminution of coordination, time of reaction, weariness, confusion, skin paraesthesia; weariness lasted for hours together with a light insomnia. 400 ppm: worsening of the symptoms and mental confusion. 600 ppm after 3 hours: extreme weariness, mental confusion, loss of control, lack of coordination, nausea, headache, loss of balance. After 8 hours these symptoms worsen and there is also dilation of the pupil and defects in adaptation to the light. 800 ppm: the same symptoms but much more accentuated.

Isopropyl Alcohol

**OBSERVATIONS ON HUMAN SUBJECTS:** propan-1-ol (propyl alcohol): oral, woman (LDLo): 5700 mg/kg propan-2-ol (isopropyl alcohol): oral, man (LDLo): 5272 mg/kg

N-Butyl Acetate

**OBSERVATIONS ON HUMAN SUBJECTS:** Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose. Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose. Inhaling the vapours can irritate the respiratory system. The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation. Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min. TCLo: 200 ppm

**12. ECOLOGICAL INFORMATION**

Further information : There is no data available for this product.

**13. DISPOSAL CONSIDERATIONS**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

**14. TRANSPORT INFORMATION**

<b>ADR</b>	: UN-No	<b>1263</b>
	Class	3
	Code	F1
	Packaging group	II
	Description of the goods	PAINT RELATED MATERIAL (vapour pressure at 50°C not more than 110kPa)
<b>IMDG</b>	: UN-No	<b>1263</b>
	Class	3
	EmS	F-E, S-E
	Packaging group	II
	Marine pollutant	
	Description of the goods	PAINT RELATED MATERIAL
<b>IATA</b>	: UN-No	<b>1263</b>
	Class	3

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Packaging group	II
Description of the goods	Paint related material

**15. REGULATORY INFORMATION**

Hazardous components which must be listed on the label:

- Xylene
- Toluene

Symbol(s)	: Xn F	Harmful Highly flammable
R-phrases(s)	: R11 R20/21 R38 R48/20  R63 R65	Highly flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.
S-phrases(s)	: S23 S24 S36/37 S62	Do not breathe spray. Avoid contact with skin. Wear suitable protective clothing and gloves. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**National legislation**Germany

Risk classification according to BetrSichV (Germany)	: AI
Water contaminating class (Germany)	: water endangering

**16. OTHER INFORMATION****Further information**

Phosphoric Acid	R34	Causes burns.
Toluene	R11 R65 R38 R63 R67 R48/20	Highly flammable. Harmful: may cause lung damage if swallowed. Irritating to skin. Possible risk of harm to the unborn child. Vapours may cause drowsiness and dizziness. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Xylene	R20/21 R38 R10	Harmful by inhalation and in contact with skin. Irritating to skin. Flammable.

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Ethanol	R11	Highly flammable.
Isopropyl Alcohol	R11 R36 R67	Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.
N-Butyl Acetate	R10 R66 R67	Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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.

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SDS updated to the last adjustment of EEC directive 67/548/CE, 1999/45/CE.