1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

NON STICK COATING AH

Use of the substance/preparation
Anti-stick coating

Company/undertaking identification

TIP TOP Oberflächenschutz Elbe GmbH
Heuweg 4
D-06886 Wittenberg
Telephone ++49(0)3491/635-50
Telefax ++49(0)3491/ 635-552

Responsible Department
Emergency telephone :++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)
Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards identification

Classification
Indications of danger : Highly flammable, Harmful
R-phrases :
Highly flammable.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.
Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Chemical characterization (Mixture)
Preparation with isocyanates

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
205-500-4	141-78-6	Ethyl acetate	< 60 %	F, Xi R11-36-66-67
	9016-87-9	Diphenylmethanediisocyanate, isomeres and homologues	< 25 %	Xn, Xi R20-36/37/38-42/43

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information
Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.
Take away from danger area and lay down affected person.

After inhalation
If patient is not breathing, apply artificial respiration.
Move to fresh air in case of accidental inhalation of vapours.
Refer for medical treatment.

After contact with skin
Remove immediately adhering matter.
Wash off immediately with soap and plenty of water.
Treat subsequently with skin cream.
Consult a physician.

After contact with eyes
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion
Do not induce vomiting.
Summon a doctor immediately.
Rinse out mouth thoroughly with water.
Induce vomiting only upon the advice of a physician.

Advice to doctor
Keep under medical supervision for at least 48 hours.

5. Fire-fighting measures

Suitable extinguishing media
Foam, carbon dioxide (CO2), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons
Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases
Fire may produce:
Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).
Hydrogen cyanide (HCN)
Isocyanates (NCO).

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

Additional information
Cool containers at risk with water spray jet.
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions
In case of vapour formation use respirator.
Ensure adequate ventilation.
Remove persons to safety.
Use personal protective clothing.
Keep away sources of ignition.

Environmental precautions
Do not discharge into the drains/surface waters/groundwater.
Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

Additional information
Container should not be gas-tight closed.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

7. Handling and storage

Handling

Advice on safe handling
Keep container tightly closed.
Vapours are heavier than air and spread along ground.
Avoid contact with the skin and the eyes.
Do not breathe vapours.
Local exhaust.
Use only in well-ventilated areas.

Advice on protection against fire and explosion
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Vapours can form an explosive mixture with air.

Storage

Requirements for storage rooms and vessels
Keep container tightly closed in a dry, cool and well-ventilated place.
Pay attention to anti-explosion rules.

Advice on storage compatibility
Exothermic reaction with:
Water, amines, alcohols, Acids and bases.

Further information on storage conditions
Keep away from food, drink and animal feeding stuffs.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Storageclass (VCI) 3 A

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
	Ethyl acetate	400	-		STEL (15 min)	WEL
-	Isocyanates, all (as -NCO)	-	0.02		TWA (8 h)	WEL
	Isocyanates, all (as -NCO)	-	0.07		STEL (15 min)	WEL

Exposure controls

Occupational exposure controls
Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures
Do not inhale vapours.
Avoid contact with eyes and skin.
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.
Remove and wash contaminated clothes before re-use.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Chemical protective glove made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.
Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

Eye protection

Eye wash bottle with pure water.
Tightly fitting goggles

Skin protection

Light protective clothing

9. Physical and chemical properties

General information

Physical state	Liquid
Colour	Greenish
Odour	Fruity

Important health, safety and environmental information

			Test method
Changes in the physical state			
Boiling point		approx. 77 °C	
Flash point		- 4 °C	
Flammability			
Lower explosion limits		2,1 vol. %	
Upper explosion limits			
Ignition temperature		> 460 °C	
Density (at 20 °C) :		1,08 g/cm³	
Water solubility : at (20 °C)		Reacts with water	
Solubility in other solvents	Acetone, dichloromethane : Bemerkung : Miscible		
Flow time : at (23 °C)		< 30 s	4 DIN EN ISO 2431

Solvent content

< 70 %

10. Stability and reactivity

Conditions to avoid

Vapours may form explosive mixture with air.
Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Materials to avoid

Water, amines, alcohols, Acids and bases

Hazardous decomposition products
Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx)
Hydrogen cyanide gas., Isocyanates

Additional information
No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.
Vapours may cause drowsiness and dizziness.
With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

12. Ecological information

Further information
Do not flush into surface water or sanitary sewer system.
Low hazard to waters
The transformation with water into CO2 and polyureas is strongly stimulated by so-called liquid crushers (ammonia, soda or alcohols, combined with liquid soap).
In aqueous systems, formation of insoluble and chemically inert (inactive) polyureas.

13. Disposal considerations

Advice on disposal
Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.
Waste disposal number of waste from residues/unused products
080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.
Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land transport (ADR/RID)

ADR/RID class	3
Classification code :	F1
Hazard-no.	33
UN number	1263
Hazard label	3
ADR/RID packing group	II

Limited quantity	LQ 6

Description of the goods
Paint

Other applicable information (land transport)
LQ 6: combination packaging: 5 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).
Tunnel restriction code: D/E
Transport category: 2

Inland waterways transport

Marine transport

IMDG code	3
UN number	1263
Marine pollutant	No
EmS	F-E; S-E
IMDG packing group	II
Limited quantity :	5 L / 30 kg
Hazard label	3

Description of the goods
PAINT

Other applicable information (marine transport)
Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Air transport

ICAO/IATA-DGR	3
UN/ID number	1263
Hazard label	3
IATA-packing instructions - Passenger	305
IATA-max. quantity - Passenger	5 L
IATA-packing instructions - Cargo	307
IATA-max. quantity - Cargo	60 L
ICAO packing group	II
Limited quantity Passenger	Y305 / 1 L

Description of the goods
PAINT

15. Regulatory information

Labelling

Additional advice on labelling	According to EC-regulations the product is to be labelled as follows:
Indication of danger	F - Highly flammable; Xn - Harmful

Hazardous component(s) to be indicated on label
Diphenylmethanediisocyanate, isomeres and homologues

R phrases

11	Highly flammable.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
67	Vapours may cause drowsiness and dizziness.

S phrases

16	Keep away from sources of ignition - No smoking.

23	Do not breathe vapour.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35	This material and its container must be disposed of in a safe way.
35	This material and its container must be disposed of in a safe way.
51	Use only in well-ventilated areas.

Special labelling for certain preparations
Contains isocyanates. See information supplied by the manufacturer.

National regulatory information

Employment restrictions	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D)	1 - slightly water contaminating
1999/13/EC (VOC)	< 60 %

16. Other information

Full text of R-phrases referred to under sections 2 and 3

11	Highly flammable.
20	Harmful by inhalation.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Further Information
Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.
The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.
"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)