

# Material Safety Data Sheet

**HY-3**

Identity (Trade Name As Used On Label)

**BANDIT NV**

Manufacturer

Nijverheidslaan 1547

Address

3660 OPGLABBEK BELGIUM

+32.89.85.77.67

Phone Number (For Information)

+32.89.85.77.67 Not applicable

Emergency Phone Number

Telex\*

Not applicable

MSDS Number\*

Not applicable

CAS Number\*

1/04/97

Date Prepared

P. Beirinckx

Prepared by\*

Note : Blank spaces are not permitted. If any item is not applicable, the space must be marked to indicate that.

**SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

Components - Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
--	----	-------------	--------------	-----------------------------

Ethanol (CAS NO 64-17-5)	16.5	1000 ppm	1000 ppm	
--------------------------	------	----------	----------	--

None of the components are listed by IARC, NTP, or OSHA as carcinogens.

Non-hazardous Ingredients

80.5

TOTAL

100

**SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point	NA (ethanol distills at 79°C)	Specific Gravity (H <sub>2</sub> O = 1)	0.98
Vapor Pressure (mm Hg and Temperature)	10.58 mmHg at 20°C	Melting Point	ND
Vapor Density (Air = 1)	3.7	Evaporation rate (_____ = 1)	ND
Solubility in Water	miscible at all concentrations	Water Reactive	ND

Appearance and Odor

Clear, colorless liquid with a mild menthol odor

**SECTION 3 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point and Method used	33.0 °C (ASTM D 92 -IP 170) (Closed Cup)	Auto-Ignition Temperature	ND	Flammability Limits in Air % by Volume	ND	LEL	ND	UEL	ND
-----------------------------	--	---------------------------	----	--	----	-----	----	-----	----

Extinguisher Media

Alcohol resistant foam, dry chemical powder, CO<sub>2</sub>, Water Spray

Special Fire Fighting Procedures

use self contained breathing apparatus, if needed

Unusual Fire and Explosion hazards

combustion will produce CO, CO<sub>2</sub> and smoke

\* optional

**SECTION 4 - REACTIVITY HAZARD DATA**

ND = no data available

Page 1/3

<b>STABILITY</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid	None
Incompatibility (Materials to Avoid) incompatible with acids, strong oxidizing substances, zinc		
Hazardous Decomposition Products		
None		
<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid	None

## SECTION 5 - HEALTH HAZARD DATA

<b>PRIMARY ROUTES OF ENTRY</b>	<input type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Not Hazardous	<b>CARCINOGEN LISTED IN</b>	<input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> ISHA <input checked="" type="checkbox"/> Not Listed
<b>HEALTH HAZARDS</b>	Acute LD <sub>50</sub> oral : > 5000 mg/kg (rat)				
	Chronic ND				
Signs and Symptoms of Exposure					
ND					
Medical Conditions Generally Aggravated by Exposure					
ND					
<b>EMERGENCY FIRST AID PROCEDURES</b> - Seek medical assistance for further treatment, observation and support if necessary.					
Eye Contact					
rinse immediately with plenty of water (at least 15 minutes); seek medical advice if irritation persists.					
Skin Contact					
remove contaminated clothing. Wash thoroughly.					
Inhalation					
remove to fresh air; in case of persistent irritation, call a physician.					
Ingestion					
Drink 1 or 2 glasses of water; do not induce vomiting or give anything by mouth to an unconsciousness person. Get medical attention if complaints persist.					

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)			
none			
Protective Gloves		Eye Protection	
impermeable		glasses with side shields	
<b>VENTILATION TO BE USED</b>	<input checked="" type="checkbox"/> Local Exhaust normal	<input checked="" type="checkbox"/> Mechanical (general) normal	<input type="checkbox"/> Special
	<input type="checkbox"/> Other (specify)		
Other Protective Clothing and Equipment			
none			
Hygienic Work Practices			
The usual precautions for handling chemicals should be observed.			

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken If Material Is Spilled Or Released	
Soak up with inert absorbent	
Waste Disposal Methods	
Treatment, storage, transportation and disposal should be in accordance with Federal, State and Local regulations legislation	
Precautions to be Taken in Handling and Storage	
HANDLING : ventilate area well. STORAGE : Keep container tightly closed. Store in the original container in a dry, well-	

ND = no data available

ventilated location at ambient temperature.

Other Precautions and/or  
Special Hazards

None

NFPA Rating*	health 0	Flammability 2	Reactivity 0	Special 0	HMIS Rating*	Health 0	Flammability 2	Reactivity 0	Personal Protection 1
-----------------	----------	----------------	--------------	-----------	-----------------	----------	----------------	--------------	--------------------------

- Hazard rating : 0 = insignificant  
1 = slight  
2 = moderate  
3 = Serious  
4 = Severe