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# Safety Data Sheet

2012

		According to	0 U.S.A. Federal Hazcor	n 2012	
1. Identification					
1.1. Product identifier					
Code: Product name CAS number		DILS000N SOLVENTE   123-86-4	N		
	uses of the substance or n		e advised against		
	uses of the substance or n			· · · · · · ·	0
Identified Uses Solvent		Industrial	Profess	sional	Consumer
oolvent		$\checkmark$			-
1.3. Details of the suppl	ier of the safety data sheet	:			
Name		ICRO COATI	•		
Full address District and Country		Via Bedesch 24040	ii, 25 Chignolo D'Isola	(P)	6)
District and Country			Italia	(B)	5)
		Tel. Fax	+39 035 999711 +39 035 999712		
e-mail address of the					
responsible for the Sa	fety Data Sheet	gianluca.cer	ina@icro.it		
Supplier:		ICRO COATI (BG) - Italy	ICRO COATINGS S.p.A. con Socio Unico - Via Bedeschi 25 - 24040 Chignolo d'Isola (BG) - Italy		
1.4. Emergency telepho	ne number				
For urgent inquiries re	fer to	Hartley grou 704-230-404		STE. D - Corneli	us, NC 28031 - USA - +01
2. Hazards identi	fication				
2.1. Classification of the	substance or mixture				
The product is classified	ed as hazardous pursuant to	the provisions s	et forth in OSHA Hazarr		Standard (HCS) (20 CEP
1910.1200). The produ	ict thus requires a safety data tion concerning the risks for h	asheet.			
Classification and Haz					
Flammable liquid, o			Flammable liquid	•	
category 3	n toxicity - single exposure,		May cause drows	iness or dizziness	i.
Hazard pictograms:					
Signal words:	Warning				
Hazard statements:					
H226 H336	Flammable liquid and v May cause drowsiness				
Precautionary stateme Prevention:	ents:				
P210	Keep away from heat, h	not surfaces, spa	arks, open flames and c	other ignition sour	ces. No smoking.
P261	Avoid breathing dust / f	ume / gas / mist		<b>J</b>	5
P242	Use only non-sparking	tools.	1 <b>f</b>		
P280 P271	Wear protective gloves Use only outdoors or in				
1 41 1					
					@EPY 11.1.2 - SDS 1004.1

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## 2. Hazards identification ... / >>

P240	Ground / bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P241	Use explosion-proof electrical / ventilating / lighting equipment.
Response:	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P312	If you feel unwell, contact a POISON CENTER or doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378	In case of fire: use powder to extinguish.
Storage:	
P403+P235	Store in a well-ventilated place. Keep cool.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal:	
P501	Dispose of the product / container in accordance with current legislation

#### 2.2. Other hazards

Additional hazards

Repeated exposure may cause skin dryness or cracking.

## 3. Composition/information on ingredients

#### 3.1. Substances

Contains:			
Identification	Co	nc. %	Classification:
<b>N-BUTYL AC</b> CAS	<b>ETATE</b> 123-86-4	100	Flammable liquid, category 3 H226, Specific target organ toxicity - single exposure, category 3 H336
EC INDEX	204-658-1 607-025-00-	1	
* The second second			

\* There is a batch to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## 4. First-aid measures

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Information not available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## 5. Fire-fighting measures

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

ΕN

## 5. Fire-fighting measures ... / >>

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## 7. Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)

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## 8. Exposure controls/personal protection ..../>>

TLV-ACGIH

2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2021

				N-BUTY	L ACETATI	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-		50		150	
OEL	EU	241	50	723	150	
OSHA	USA	710	150			
CAL/OSHA	USA	710	150	950	200	
NIOSH	USA	710	150	950	200	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations. HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes,

mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<b>Properties</b> Appearance Colour Odour Odour threshold pH Melting point / freezing point	<b>Value</b> liquid colourless Fruity Not available Not applicable -79 °C	Information
Initial boiling point	126.2 °C (259,16 °F)	
Boiling range	Not available	
Flash point	27 °C (80,6 °F)	
Evaporation rate	1	
	(BUAC=1)	
Flammability (solid, gas)	flammable liquid	
Lower inflammability limit	1.7 % (V/V) 20 °C	
Upper inflammability limit	7.6 % (V/V) 20 °C	
Lower explosive limit	1.7 % (V/V) 20 °C	Temperature: 20 °C
Upper explosive limit	7.6 % (V/V) 20 °C	Temperature: 20 °C
Vapour pressure	8.7 mbar	
Vapour density	4	Remark:Aria = 1
· ·		Temperature: 20 °C

## 9. Physical and chemical properties ... / >>

Relative density Solubility	0.88 g/cm3 soluble in organic solvents	Temp Rema Temp
Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties <b>9.2. Other information</b>	2.3 415 °C Not applicable 0,83 mm2/s Not available not oxidizing	Temp
Molecular weight VOC :	116.16 100,00 % - 880,00 g/litre	

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Temperature: 20 °C Remark:5,3 g/l Temperature: 20 °C Temperature: 25 °C

## 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Decomposes on contact with: water.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

## 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

Avoid exposure to: moisture, sources of heat, naked flames.

#### 10.5. Incompatible materials

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc. 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the

## toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed

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## 11. Toxicological information ... / >>

xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

N-BUTYL ACETATE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours):

10768 mg/kg Rat 17600 mg/kg Rabbit 21.1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

## 12.1. Toxicity

N-BUTYL ACETATE

LC50 - for Fish

EC50 - for Algae / Aquatic Plants

18 mg/l/96h pimephales promelas

675 mg/l/72h

12.2. Persistence and degradability

## 12. Ecological information ... / >>

N-BUTYL ACETATE					
Solubility in water		1000 - 10000 mg/l			
-					
12.3. Bioaccumulative po	Stential				
N-BUTYL ACETATE					
Partition coefficient: n-o	ctanol/water	2.3			
BCF		15.3			
12.4. Mobility in soil					
N-BUTYL ACETATE					
Partition coefficient: soil	l/water	< 3			
12.5. Results of PBT and	vPvB assessment				
On the basis of availabl	e data, the product does not	contain any PBT or vPvB in percentage ≥ than 0,1%.			
12.6. Other adverse effect					
Information not availabl					
<ul> <li>13.1. Waste treatment methods         Reuse, when possible. Neat product residues should be considered special non-hazardous waste.         Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.         CONTAMINATED PACKAGING         Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.     </li> </ul>					
14. Transport info	rmation				
14.1. UN number					
ADR / RID, IMDG, IATA	A: 1123				
14.2. UN proper shipping	y name				
IMDG: E	IMDG: BUTYL ACETATES				
14.3. Transport hazard class(es)					
ADR / RID: 0	Class: 3 Label: 3				
IMDG: C	Class: 3 Label: 3				
IATA: C	Class: 3 Label: 3	s			
14.4. Packing group					
ADR / RID, IMDG, IATA	A: III				

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## 14. Transport information ... / >>

### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID:

IMDG:

IATA:

HIN - Kemler: 30 Special provision: -EMS: F-E, S-D Cargo: Pass.: Special provision: Limited Quantities: 5 L

Limited Quantities: 5 L Maximum quantity: 220 L Maximum quantity: 60 L A3 Tunnel restriction code: (D/E)

Packaging instructions: 366 Packaging instructions: 355

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal Regulations

TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: 123-86-4 N-BUTYL ACETATE

EPCRA 313 TRI: No component(s) listed.

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15. Regulatory information ... / >>

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts: 123-86-4

N-BUTYL ACETATE

Minnesota:	
123-86-4	N-BUTYL ACETATE

New Jersey: 123-86-4 N-BUTYL ACETATE

New York: 123-86-4 N-BUTYL ACETATE Pennsylvania:

123-86-4 N-BUTYL ACETATE

California: 123-86-4

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

N-BUTYL ACETATE

None

Substances subject to the Stockholm Convention: None

## 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%

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## 16. Other information ... / >>

- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current

health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

## CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 09.