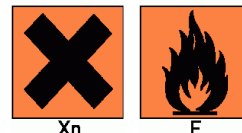


Safety Data Sheet

CATALIZZATORE IV132/BCO



Safety Data Sheet dated 16/3/2011, version 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Mixture identification:

Trade name: CATALIZZATORE IV132/BCO

Trade code: IV132/BCO

1.2 Relevant identified uses of the substance/mixture and uses advised against

Product type and use: varnishing product

1.3 Details of the supplier of the safety data sheet

Supplier:

INVEBI international sas 21040 Orago (VA) - ITALY - Via varesina 78/B - tel. 39-331-218018/217004 - fax 39-331-216484

Competent person responsible for the safety data sheet:

lab@invebi.it

1.4 Emergency telephone number

INVEBI international sas tel. 39-0331-218018/217004 Fax. +39-0331-216484

Poison Centre - Ospedale di Niguarda - Milan - Tel. 02/66101029

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F Highly flammable

Xn Harmful

Xi Irritant

R Phrases:

R11 Highly flammable.

R20 Harmful by inhalation.

R38 Irritating to skin.

R42 May cause sensitization by inhalation.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2 Label elements



Symbols:

Xn Harmful

F Highly flammable

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R Phrases:

- R11 Highly flammable.
- R20 Harmful by inhalation.
- R38 Irritating to skin.
- R42 May cause sensitization by inhalation.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.

S Phrases:

- S23 Do not breathe gas/vapour
- S25 Avoid contact with eyes.
- S36/37 Wear suitable protective clothing and gloves.
- S43 In case of fire, use: dust chemistry, foam, carbonic anhydride.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S9 Keep container in a well-ventilated place.

Contents:

- toluene
- 2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;

Special Provisions:

- Contains isocyanates. See information supplied by the manufacturer.

2.3 Other hazards

Other Hazards:

- No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS


3.1 Substances

- N.A.

3.2 Mixtures


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

30% - 40% n-butyl acetate


- N.67/548/EEC: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1
- R10-66-67; substance with a Community workplace exposure limit
-  2.6/3 Flam. Liq. 3 H226

-  3.8/3 STOT SE 3 H336

25% - 30% toluene

- N.67/548/EEC: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9
- F,Xn,Xi; R11-38-48/20-63-65-67
-  2.6/2 Flam. Liq. 2 H225

-  3.7/2 Repr. 2 H361

-  3.10/1 Asp. Tox. 1 H304

-  3.9/2 STOT RE 2 H373

-  3.2/2 Skin Irrit. 2 H315

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 3.8/3 STOT SE 3 H336

12.5% - 15% ethyl acetate

N.67/548/EEC: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4

F,Xi; R11-36-66-67

 2.6/2 Flam. Liq. 2 H225


 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

0.1% - 0.25% 2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;

N.67/548/EEC: 615-006-00-4 CAS: 584-84-9 EC: 209-544-5

Carc. Cat. 3,T+,Xn,Xi; R26-36/37/38-40-42/43-52/53

 3.6/2 Carc. 2 H351

 3.3/2 Eye Irrit. 2 H319


 3.8/3 STOT SE 3 H335

 3.2/2 Skin Irrit. 2 H315

 3.4.1/1 Resp. Sens. 1 H334

 3.4.2/1 Skin Sens. 1 H317

4.1/C3 Aquatic Chronic 3 H412

 3.1/2/Inhal Acute Tox. 2 H330

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the toxin must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

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In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3 Advice for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3 Methods and material for containment and cleaning up

Wash with plenty of water.

6.4 Reference to other sections

See also section 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

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

Keep away from food, drink and feed.

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Instructions as regards storage premises:

Cool and adequately ventilated.

7.3 Specific end use(s)

None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

n-butyl acetate - Index: 607-025-00-1, CAS: 123-86-4, EC No: 204-658-1

TLV-TWA: ppm 150

TLV-STEL: ppm 200

toluene - Index: 601-021-00-3, CAS: 108-88-3, EC No: 203-625-9

VLE 8h: ppm 50 mg/m³ 192 ,Skin

VLE short: ppm 100 mg/m³ 384 ,Skin

TLV-TWA: ppm 50 ,Skin A4

TLV-STEL: Skin A4

ethyl acetate - Index: 607-022-00-5, CAS: 141-78-6, EC No: 205-500-4

TLV-TWA: ppm 400

2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate; - Index: 615-006-00-4, CAS: 584-84-9, EC No: 209-544-5

TLV-TWA: ppm 0,005 SEN A4

TLV-STEL: ppm 0,02 SEN A4

8.2 Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Thermal Hazards:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour: transparent liquid

Odour: solvante

Odour threshold: N.A.

Viscosity: ford n°4 a 20°C = 10 sec.

Solid content: 26,5%+-1

Specific weight: 0,92

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Flash point: -5°C

Evaporation rate: N.A.

Vapour pressure: N.A.

Relative density: N.A.

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Solubility in water:	No
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
9.2 Other information	
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid:

Stable under normal conditions.

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

n-butyl acetate - Index: 607-025-00-1, CAS: 123-86-4, EC No: 204-658-1

OBSERVATIONS ON HUMAN SUBJECTS:

Inhalation: 3300 ppm (16 mg/l), for short periods, causes 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

toluene - Index: 601-021-00-3, CAS: 108-88-3, EC No: 203-625-9

OBSERVATIONS ON HUMAN SUBJECTS - NON-PROFESSIONAL EXPOSURE

Effects following acute exposure:

At 200 ppm: mild but definite decrease in coordination and in reaction time, fatigue, confusion, paraesthesia of the skin; the fatigue lasted over a number of hours together with mild insomnia.

At 400 ppm: worsening of symptoms and mental confusion.

ethyl acetate - Index: 607-022-00-5, CAS: 141-78-6, EC No: 205-500-4

OBSERVATIONS ON HUMAN SUBJECTS:

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400 ppm: eye irritant.
Serious toxic effects at 2,000ppm/60 mins, symptoms of malaise at 800 ppm.
Inhalatory toxicity: TCLo 400 ppm, irritation to nose, eyes, and respiratory system.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
Adopt sound working practices, so that the product is not released into the environment.
- 12.2 Persistence and degradability
None
- 12.3 Bioaccumulative potential
N.A.
- 12.4 Mobility in soil
N.A.
- 12.5 Results of PBT and vPvB assessment
- 12.6 Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
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.

14. TRANSPORT INFORMATION

- 14.1 UN number:
- | | |
|-----------------|------|
| ADR-UN Number: | 1263 |
| IATA-UN Number: | 1263 |
| IMDG-UN Number: | 1263 |
- 14.2 UN proper shipping name:
- | | |
|---------------------|---------------------------------|
| ADR-Shipping Name: | PAINT or PAINT RELATED MATERIAL |
| IATA-Shipping Name: | PAINT or PAINT RELATED MATERIAL |
| IMDG-Shipping Name: | PAINT or PAINT RELATED MATERIAL |
- 14.3 Transport hazard class(es):
- | | |
|----------------|----------------------------------|
| ADR-Class: | 3 |
| ADR-HI number: | 33 |
| IATA-Class: | 3 |
| IATA-Label: | Flamm. Liquid |
| IMDG-Class: | 3 |
| Sea (IMO): | 3,3 UN 1263 pag. 3372 RINA 3 C21 |
- 14.4 Packing Group:
- | | |
|---------------------|----|
| ADR-Packing Group: | II |
| IATA-Packing group: | II |
| IMDG-Packing group: | II |
- 14.5 Environmental hazards
- | | |
|------------------------|----|
| IMDG-Marine pollutant: | No |
|------------------------|----|
- 14.6 Special Precautions for User

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ADR-S.P.: 640D
IATA-Passenger Aircraft: 305
IATA-Cargo Aircraft: 307
IATA-S.P.: A72
IATA-ERG: 3L

IMDG-EmS: F-E , S-E

IMDG-Storage category: B

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Environmental Pollutant:
No

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.

UE(dir 2004/42/CE) Pronto all'Uso / Ready to use
Volatile Organic compounds - VOCs = 73.63 %
Volatile Organic compounds - VOCs = 677.35 g/l

Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.45

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)

15.2 Chemical Safety Assessment
No

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

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.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

R63 Possible risk of harm to the unborn child

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H330 Fatal if inhaled.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

CCNL - Appendix 1 "TLV for 1989-90"

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.