

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2016

Revision: 29.08.2016

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name: ISOLEMFI MONTAGE FIX**
- **Article number: 50131A**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **1.2.1 Relevant identified uses**
- **Sector of Use**
 SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category PC1 Adhesives, sealants**
- **Process category**
 PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
- **Environmental release category ERC5 Industrial use resulting in inclusion into or onto a matrix**
- **Application of the substance / the preparation : Adhesive**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 EMFI S.A.S.
 3 RUE ETTORE BUGATTI
 BP 40030
 67501 HAGUENAU CEDEX
 FRANCE
 Phone: 33 3 88 90 60 00
 Fax : 33 3 88 73 48 38
 E-mail : emfi.sdsquestions@mmm.com
 Internet : <http://www.emfi.com>
- **Information department: Laboratory**
- **1.4 Emergency telephone number: ORFILA: +33 (0)1 45 42 59 59 (in France)**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 Carc. 2 H351 Suspected of causing cancer.
 STOT SE 3 H335 May cause respiratory irritation.
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08

- **Signal word Danger**

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- **Hazard-determining components of labelling:**
diphenylmethanediisocyanate, isomers and homologues
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
P260 Do not breathe vapours.
P284 In case of inadequate ventilation wear respiratory protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents and container in accordance with local regulations.
- **Additional information :**
Contains isocyanates. May produce an allergic reaction.
- **Additional information :** Restricted to professional users.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate

- **Dangerous components:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-20%
CAS: 26761-40-0 EINECS: 247-977-1 Reg.nr.: 01-2119422347-43	diisodecyl phthalate substance with a Community workplace exposure limit	2-5%
CAS: 872-50-4 EINECS: 212-828-1 Reg.nr.: 01-2119472430-46	N-methyl-2-pyrrolidone ⚠ Repr. 1B, H360D; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2-5%
CAS: 6425-39-4 EINECS: 229-194-7 Reg.nr.: 01-2119969278-20	2,2'-dimorpholinyl-diethyl ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.5%
EC number: 926-141-6 Reg.nr.: 01-2119456620-43	hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics ⚠ Asp. Tox. 1, H304	< 2.5%

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CAS: 1305-78-8 EINECS: 215-138-9 Reg.nr.: 01-2119475325-36	calcium oxide ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 2%
CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45	calcium dihydroxide ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 1%

- **SVHC**

872-50-4 | N-methyl-2-pyrrolidone

- **Additional information :**

Contains 4,4'-methylenediphenyl diisocyanate (CAS : 101-68-8, EINECS : 202-966-0, Reg. nr. : 01-2119457014-47)

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information** Immediately remove any clothing soiled by the product.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness, place patient stably in side position for transportation.

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Nausea

Breathing difficulty

Dizziness

Headache

Coughing

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents** CO₂, extinguishing powder or water spray.

- **For safety reasons unsuitable extinguishing agents** Water with full jet.

- **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

- **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Do not close them (reaction with water forming carbon dioxide).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from humidity and water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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26761-40-0 diisodecyl phthalate

WEL	Long-term value: 5 mg/m ³
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872-50-4 N-methyl-2-pyrrolidone

WEL	Short-term value: 80 mg/m ³ , 20 ppm Long-term value: 40 mg/m ³ , 10 ppm Sk
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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

RCP-TWA	Long-term value: 1200 mg/m ³
VME	Long-term value: 1200 mg/m ³

1305-78-8 calcium oxide

WEL	Long-term value: 2 mg/m ³
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1305-62-0 calcium dihydroxide

WEL	Long-term value: 5 mg/m ³
-----	--------------------------------------

CAS No.	Designation of material	%	Type	Value	Unit
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· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

101-68-8 4,4'-methylenediphenyl diisocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands before breaks and at the end of work.
Clean skin thoroughly immediately after handling the product.
Immediately remove all soiled and contaminated clothing.
Do not inhale gases / fumes / aerosols.
Do not eat, drink, smoke while working.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AB

· **Protection of hands:**

PVC gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:** Tightly sealed goggles.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Beige
Odour:	without

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- | | |
|--|--|
| · Change in condition | |
| Melting point/Melting range: | undetermined |
| Boiling point/Boiling range: | > 190 °C |
| · Flash point: | > 70 °C |
| · Self-ignition temperature: | > 200 °C |
| · Decomposition temperature: | > 140 °C |
| · Self igniting: | Product is not selfigniting at room temperature. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible |
| · Explosion limits: | |
| Lower: | 0.6 Vol % |
| Upper: | 9.5 Vol % |
| · Density at 20 °C: | 1.40 |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Viscosity: | |
| dynamic at 20 °C: | 400 000 mPa.s |
| · Solvent content: | |
| Organic solvents: | 4.6 % |
| · 9.2 Other information | No further relevant information available. |
| · Volatile organic compounds (VOC) : | < 5 % |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None to our knowledge at room temperature.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

872-50-4 N-methyl-2-pyrrolidone

Oral	LD50	3600 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rbt)

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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **Additional toxicological information:**
Persons having a history of asthma or of allergies, chronic or recurring difficulties in breathing, must never use this preparation.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Waste disposal key:** 08 04 11*
- **Uncleaned packaging :**
- **Recommendation:**
Packaging that cannot be cleansed are to be disposed of in the same manner as the product.

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The packaging may be decontaminated for example with the following mixture : water + 5 to 10 % sodium carbonate + 0.2 to 1 % liquid detergent. Add this mixture to the residues in the unclosed container in order to allow carbon dioxide to escape. Let react during several days until no reaction occurs.

SECTION 14: Transport information

- | | |
|---|-----------------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG
· IATA | Void
Not regulated |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 20, 30, 52b
 - **National regulations**
 - **French VOC regulation (decree n° 2011-321) : Class A+**
 - **Other regulations, limitations and prohibitive regulations**
 - **Substances of very high concern (SVHC) according to REACH, Article 57**
- | | |
|----------|------------------------|
| 872-50-4 | N-methyl-2-pyrrolidone |
|----------|------------------------|
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments ; it is written according to annex II of the european regulation 830/2015/EC.

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· **Relevant phrases**

- H304 *May be fatal if swallowed and enters airways.*
- H315 *Causes skin irritation.*
- H317 *May cause an allergic skin reaction.*
- H318 *Causes serious eye damage.*
- H319 *Causes serious eye irritation.*
- H332 *Harmful if inhaled.*
- H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
- H335 *May cause respiratory irritation.*
- H351 *Suspected of causing cancer.*
- H360D *May damage the unborn child.*
- H373 *May cause damage to organs through prolonged or repeated exposure.*

· **Department issuing SDS:** Laboratory

· **Contact:** cf. § 1

· **Review :**

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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Annex: Exposure scenario 1

- **Name** 4,4'-methylenediphenyl diisocyanate
- **Short title of the exposure scenario**
Industrial use for rigid foam, coatings and adhesives and sealants
Professional end use in rigid foam, coatings, adhesives and sealants and other composite material
Consumer end use in rigid foam, coatings and adhesives and sealants
- **Sector of Use**
 SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 SU21 Consumer uses: Private households / general public / consumers
- **Product category**
 PC1 Adhesives, sealants
 PC9a Coatings and paints, thinners, paint removers
 PC32 Polymer preparations and compounds
- **Process category**
 PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
 PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 PROC7 Industrial spraying
 PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 PROC15 Use as laboratory reagent
- **Environmental release category**
 ERC5 Industrial use resulting in inclusion into or onto a matrix
 ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
 ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
 ERC2 Formulation of preparations
- **Conditions of use** According to directions for use.
- **Duration and frequency**
 up to 8 hour(s) per day
 For consumer end use in rigid foam, coatings and adhesives and sealants :
 Covers use up to 1 day/year
 Covers skin contact area up to 2 cm²
- **Physical parameters**
- **Physical state** Liquid
- **Concentration of the substance in the mixture** Raw material.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**
 Local fresh water dilution factor: 10
 Local marine water dilution factor : 100
- **Other operational conditions affecting worker exposure**
 Avoid contact with the skin and eyes.
 Indoor application.
 Outdoor application.
 Do not breathe gas/vapour/aerosol.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product**
 Not applicable.

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- **Risk management measures**

- **Worker protection**

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Provide extraction ventilation at points where emissions occur. Provide extract ventilation to material transfer points and other openings. Handle in a fumecupboard or under extract ventilation.

If above technical/organisational control measures are not feasible, then adopt following PPE: wear a respirator conforming to EN140 with Type A filter or better.

Use suitable eye protection and gloves. Wear suitable coveralls to prevent exposure to the skin.

- **Organisational protective measures**

Ensure that activities are executed by specialists or authorised personnel only.

- **Technical protective measures**

Ensure that suitable extractors are available on processing machines

Work only in fume cupboard.

Ensure good ventilation/exhaustion at the workplace.

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Tightly sealed goggles.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter A2B2-P3

Butyl, nitrile or polychloroprene rubber gloves of superior quality.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Protective work clothing.

- **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

Protective gloves

Tightly sealed goggles.

- **Environmental protection measures**

- **Air** No special measures required.

- **Water** Do not allow to reach ground water, water bodies or sewage system.

- **Soil** Prevent contamination of soil.

- **Disposal measures** Disposal must be made according to official regulations.

- **Disposal procedures**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Exposure estimation**

- **Worker (dermal)**

The highest dermal exposure to be expected is 5.0 mg / kg / day.

(estimations using EASE)

- **Worker (inhalation)** The highest inhalative exposure to be expected is 0.05 ppm.

- **Environment**

Prediction of highest expected environmental exposure (soil) is 0.27 mg/kg dry weight

The highest environmental exposure to be expected for surface waters is 0.0687 mg / L.

Prediction of highest expected environmental exposure (sea water) is 0.000543 mg/kg

- **Consumer**

The highest inhalative exposure to be expected for consumers is 0.020 ppm.

The highest dermal exposure to be expected for consumers is 0.069 mg / kg / day.

(Consexpo model)

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· **Guidance for downstream users**

For the risk assessment, the tools recommended by ECHA can be used.

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Annex: Exposure scenario 2

- **Name** N-methyl-2-pyrrolidone
- **Short title of the exposure scenario**
- **Sector of Use**
 - SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC1 Adhesives, sealants
- **Process category**
 - PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- **Environmental release category**
 - ERC2 Formulation of preparations
 - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency**
 - Concentrations up to 100 %
 - 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Other operational conditions**
- **Other operational conditions affecting worker exposure**
 - Avoid contact with eyes.
 - Avoid contact with the skin.
 - Do not use at a temperature more than 20 °C above room temperature.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product**
 - Not applicable.
- **Risk management measures**
- **Worker protection**
 - Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN 374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities immediately after spilling. Wash skin immediately after handling.
 - Preparation of material for indoor application : provide adequate controlled ventilation (10 to 15 air changes per hour).
 - Indoor roller coating, spraying and flow coating : ensure adequate controlled ventilation (10 to 15 air changes per hour) ; wear respiratory protection (standard EN 140 with Type A filter or better).
 - Outdoor roller coating, spray and flow coating : wear respiratory protection (standard EN 140 with Type A filter or better).
 - Indoor spraying : avoid activities with more than 1 hour exposure ; wear a full face respirator according to standard EN140 with Type A filter or better.
 - Storage with occasional controlled exposure : store substance in a closed system.
- **Technical protective measures**
 - Only handle and refill product in closed systems.

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Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: ISOLEMFI MONTAGE FIX

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Ensure that suitable extractors are available on processing machines

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Wear suitable protective gloves and protective goggles /face protection during work.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Disposal measures** *Disposal must be made according to official regulations.*

- **Disposal procedures**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Exposure estimation**

- **Worker (oral)**

PROC4 : the highest oral exposure to be expected is 0.5 ppm

PROC5 : the highest oral exposure to be expected is 0.5 ppm

PROC7 : the highest oral exposure to be expected is 1 ppm

PROC8a : the highest oral exposure to be expected is 1 ppm

PROC8b : the highest oral exposure to be expected is 0.15 ppm

PROC9 : the highest oral exposure to be expected is 0.5 ppm

- **Worker (dermal)**

PROC4 : the highest dermal exposure to be expected is 0.2 mg / kg / day

PROC5 : the highest dermal exposure to be expected is 2.74 mg / kg / day

PROC7 : the highest dermal exposure to be expected is 0.86 mg / kg / day

PROC8a : the highest dermal exposure to be expected is 0.14 mg / kg / day

PROC8b : the highest dermal exposure to be expected is 0.69 mg / kg / day

PROC9 : the highest dermal exposure to be expected is 0.69 mg / kg / day

- **Environment** *No environmental hazard has been identified*

- **Consumer** *Not relevant for this Exposure Scenario.*

- **Guidance for downstream users** *No further relevant information available.*