

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Isonel® 31 J

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Type of Application (Use) : Insulating varnish

Recommended restrictions on use : For industrial use only.

**1.3 Details of the supplier of the safety data sheet**Company : ELANTAS Europe S.r.l.  
Strada Antolini 1  
43044 Collecchio  
Italy  
Telephone : +3907363081  
Telefax : +390736402746  
E-mail address of person responsible for the SDS : msds.elantas.europe@a **Service Chimie**  
5, place de l'Eglise  
77400 Saint Thibault - France  
☎: +33 (0) 164 308 922  
☎: +33 (0) 164 308 749  
✉: produits@service-chimie.fr  
www.service-chimie.fr**1.4 Emergency telephone number**+44 1235 239670 (All languages)  
+1 215 207 0061 (America)  
+65 3158 1074 (East/South East Asia)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



### Isonel® 31 J

Version  
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#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P391 Collect spillage.

##### Hazardous components which must be listed on the label:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified

##### Additional Labelling

EUH208 Contains formaldehyde. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SAFETY DATA SHEET**

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**Isonel® 31 J**

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**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**

Chemical nature : Alkyd phenolic resin solution

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 20 - < 25
Aromatic hydrocarbons, C9-12, benzene distn.; Light Oil Redistillate, high boiling	92062-36-7 295-551-9 648-013-00-6 01-2119555277-32	Flam. Liq. 3; H226 STOT SE 3; H335 (Respiratory system) STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 12,5
Hydrocarbons, C9, aromatics	64742-95-6 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 12,5
formaldehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 1; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 (Respiratory system)	< 0,1

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006


**Isonel® 31 J**

 Version  
7.1 SDB\_REG\_EU

 Revision Date:  
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		specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 >= 5 % Skin Sens. 1; H317 >= 0,2 %
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For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.  
Do not leave the victim unattended.  
Consult a physician.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Oxygen or artificial respiration if needed.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water for at least 15 minutes.  
Use a mild soap if available.  
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Consult a physician.  
Keep eye wide open while rinsing.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Gently wipe or rinse the inside of the mouth with water.  
Call a physician immediately.  
Never give anything by mouth to an unconscious person.  
Do not give milk or alcoholic beverages.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
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Symptoms : Nausea  
Vomiting  
Central nervous system depression

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Warning: water promotes the spread of fire.  
Cool containers/tanks with water spray.  
Burning produces irritant fumes.  
The pressure in sealed containers can increase under the influence of heat.  
Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Local authorities should be advised if significant spillages

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013

cannot be contained.  
Retain and dispose of contaminated wash water.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Sweep up and shovel into suitable containers for disposal.  
Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Ensure all equipment is electrically grounded before beginning transfer operations.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Keep away from fire, sparks and heated surfaces.  
Keep container closed when not in use.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition.

Hygiene measures : Store personal protection equipment in a clean location away from the work area. Keep working clothes separately.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

**7.3 Specific end use(s)**

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006


**Isonel® 31 J**

 Version  
7.1 SDB\_REG\_EU

 Revision Date:  
07.07.2023

 Date of last issue: 08.08.2022  
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**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
formaldehyde	50-00-0	STEL	0,6 ppm 0,74 mg/m <sup>3</sup>	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		TWA	0,3 ppm 0,37 mg/m <sup>3</sup>	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	Workers	Skin contact	Long-term exposure, Systemic effects	25 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	150 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term exposure, Systemic effects	11 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	32 mg/m <sup>3</sup>
Aromatic hydrocarbons, C9-12, benzene distn.; Light Oil Redistillate, high boiling	Workers	Skin contact	Long-term systemic effects	25 mg/kg
	Workers	Inhalation	Long-term systemic effects	150 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	11 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m <sup>3</sup>
Hydrocarbons, C9, aromatics	Workers	Skin contact	Long-term systemic effects	25 mg/kg
	Workers	Inhalation	Long-term systemic effects	150 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	11 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m <sup>3</sup>



**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**8.2 Exposure controls****Engineering measures**

Use only appropriately classified electrical equipment and powered industrial trucks.

**Personal protective equipment**

- Eye protection : Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.  
Do not wear contact lenses.
- Hand protection
- Material : Polyvinyl alcohol or nitrile- butyl-rubber gloves
- Material : Protective gloves complying with EN 374.
- Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and body protection : Workers should wear antistatic footwear.  
Remove and wash contaminated clothing before re-use.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
Equipment should conform to EN 14387
- Filter type : Organic vapour type (A)
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
Do not wear contact lenses.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Physical state : liquid
- Colour : yellow
- Odour : characteristic
- Melting point/freezing point : lower -15 °C
- Boiling point/boiling range : 140 - 218 °C
- Upper explosion limit / Upper flammability limit : 7 %(V)
- Lower explosion limit / Lower flammability limit : 1 %(V)



**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013

Flash point	:	65 °C Method: calculated
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
pH	:	Not applicable substance/mixture is non-soluble (in water)
Solubility(ies) Water solubility	:	immiscible
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	not determined
Density	:	0,97 g/ml (20 °C)
Bulk density	:	not determined
Relative vapour density	:	upper 1 (Air = 1.0)

**9.2 Other information**

Self-ignition : &gt; 400 °C

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**Hazardous reactions : Keep away from oxidizing agents, strongly acid or alkaline materials and amines.  
Vapours may form explosive mixture with air.**10.4 Conditions to avoid**

Conditions to avoid : No decomposition if used as directed.

**10.5 Incompatible materials**Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents  
Strong reducing agents  
Alkali metals  
Alkaline earth metals

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**10.6 Hazardous decomposition products**Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.Hazardous decomposition products : Stable under recommended storage conditions.  
Heating can release vapours which can be ignited.  
Burning produces noxious and toxic fumes.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity (other routes of administration) : Remarks: No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Method: OECD Test Guideline 402**Skin corrosion/irritation****Product:**

Remarks : No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes**Serious eye damage/eye irritation****Product:**

Remarks : No data available

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

**Germ cell mutagenicity****Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- Assessment : Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

**Aromatic hydrocarbons, C9-12, benzene distn.; Light Oil Redistillate, high boiling:**

Germ cell mutagenicity- Assessment : Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note J)

**Carcinogenicity****Product:**

Remarks : No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

**Aromatic hydrocarbons, C9-12, benzene distn.; Light Oil Redistillate, high boiling:**

Carcinogenicity - Assessment : Classified based on benzene content &lt; 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note J)

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on foetal develop- : Remarks: No data available  
ment**STOT - single exposure****Product:**

Remarks : No data available

**STOT - repeated exposure****Product:**

Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Aspiration toxicity****Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information****Product:**

Remarks : No data available

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**Toxicity to fish : LL50 (Fish): 9,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yesToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yesToxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata): 2,6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

**Components:****Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**12.4 Mobility in soil**

No data available

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Do not dispose of with domestic refuse.  
The product should not be allowed to enter drains, water courses or the soil.  
Container hazardous when empty.  
Dispose of in accordance with local regulations.  
Can be incinerated, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR/RID/ADN : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

**14.2 UN proper shipping name**

ADR/RID/ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Solvent naphtha)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(SOLVENT NAPHTHA)

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
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(Solvent naphtha)**14.3 Transport hazard class(es)****ADR/RID/ADN** : 9**IMDG** : 9**IATA** : 9**14.4 Packing group****ADR/RID/ADN**Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : -  
Remarks : ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.**IMDG**Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : IMDG Code segregation group - none  
IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.**IATA (Cargo)**Packing instruction (cargo aircraft) : 964  
Packing group : III  
Labels : Miscellaneous  
Remarks : IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.



**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013**IATA (Passenger)**

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

**14.5 Environmental hazards****ADR/RID/ADN**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

**IATA (Cargo)**

Environmentally hazardous : yes

**14.6 Special precautions for user**

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list: 3

formaldehyde (Number on list: 72, 28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

**SAFETY DATA SHEET**

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**Isonel® 31 J**Version  
7.1 SDB\_REG\_EURevision Date:  
07.07.2023Date of last issue: 08.08.2022  
Date of first issue: 07.02.2013

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

: Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

Other regulations : For the product composition, we do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS 3, and China RoHS).  
The product is thus in line with those directives.  
We do not add Conflict minerals to the product.**15.2 Chemical safety assessment**

Not applicable

**SECTION 16: Other information****Full text of H-Statements**

H226 : Flammable liquid and vapour.  
H301 : Toxic if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H311 : Toxic in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H330 : Fatal if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H341 : Suspected of causing genetic defects.  
H350 : May cause cancer.  
H411 : Toxic to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard

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Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Flam. Liq.	:	Flammable liquids
Muta.	:	Germ cell mutagenicity
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
2004/37/EC	:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
2004/37/EC / STEL	:	Short term exposure limit
2004/37/EC / TWA	:	Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Training advice : Provide adequate information, instruction and training for operators.

**Classification of the mixture:**

STOT SE 3	H336
STOT SE 3	H335

**Classification procedure:**

Calculation method
Calculation method

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Asp. Tox. 1

H304

Calculation method

Aquatic Chronic 2

H411

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

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