

Safety data sheet

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BASF Safety data sheet

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Product: **Joncryl® 690**(30074912/SDS_GEN_SG/EN)

Version: 2.0

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1. Substance/preparation and company identification

Joncryl® 690

Use: polymers for inks, varnishes or coatings

Company:

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Emergency information:

International emergency number:

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2. Hazard identification

Classification of the substance and mixture:

| No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

| The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:

| The product is under certain conditions capable of dust explosion.

3. Composition/information on ingredients

Chemical nature

Modified styrene acrylic polymers

Hazardous ingredients

| acrylic acid

Content (W/W): <= 0.5 %
CAS Number: 79-10-7

Flam. Liq.: Cat. 3
Acute tox.: Cat. 4 (Inhalation - vapour)
Acute tox.: Cat. 4 (oral)
Acute tox.: Cat. 3 (dermal)
Skin corr./irr.: Cat. 1A
STOT single: Cat. 3 (irr. to respiratory syst.)
Eco acute: Cat. 1
Eco chronic: Cat. 1

4. First-Aid Measures

General advice:

| Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

| Wash thoroughly with soap and water.

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

| Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

| Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

| dry powder, foam

Unsuitable extinguishing media for safety reasons:

| carbon dioxide

Additional information:

| Avoid whirling up the material/product because of the danger of dust explosion.

Specific hazards:

| Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

| Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective clothing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of.
Avoid raising dust.

7. Handling and Storage

Handling

When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Provide good ventilation of working area (local exhaust ventilation if necessary).

Protection against fire and explosion:

Electrostatic charge is possible when unpacking the product. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Dust can form an explosive mixture with air.

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from the effects of light. Keep container in a well-ventilated place.

8. Exposure controls and personal protection

Components with workplace control parameters

Acrylic acid crude, 79-10-7;
TWA value 2 ppm (ACGIHTLV)
Skin Designation (ACGIHTLV)
The substance can be absorbed through the skin.
TWA value 5.9 mg/m³ ; 2 ppm (OEL (SG))

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and Chemical Properties

Form:	solid
Colour:	colourless
Odour:	acrylic-like
Odour threshold:	not determined

pH value:	not soluble
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melting range:	approx. 250 - 300 °C
Boiling point:	The product is a non-volatile solid.

Flash point:	Study scientifically not justified.
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Evaporation rate:	The product is a non-volatile solid.
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Flammability (solid/gas):	does not ignite
Lower explosion limit:	

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Upper explosion limit:
 As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature:
 Study scientifically not justified.

Thermal decomposition: Stable up to the melting point.

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure:
 The value has not be determined because of the high melting point.

Density: 1.16 g/cm³
 (20 °C)

Relative density: approx. 1.0 - 1.2
 (20 °C)

Bulk density: approx. 400 - 700 kg/m³

Relative vapour density (air):
 The product is a non-volatile solid.

Solubility in water: slightly soluble

Hygroscopy: Non-hygroscopic

Partitioning coefficient n-octanol/water (log Pow): < 3
 By analogy with a product of similar composition

Viscosity, dynamic:
 Study technically not feasible.

10. Stability and Reactivity

Conditions to avoid:
 Avoid dust formation.

Thermal decomposition: Stable up to the melting point.

Substances to avoid:
 No substances known that should be avoided.

Hazardous reactions:

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

The product has not been tested. The statement has been derived from products of a similar structure or composition.

LC50 rat (by inhalation): 4 h

not determined

LD50 rat (dermal):

not determined

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant (BASF-Test)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Respiratory/Skin sensitization

Experimental/calculated data:

guinea pig: Non-sensitizing. (OECD Guideline 406)

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

No data was available concerning mutagenic activity.

Carcinogenicity

Assessment of carcinogenicity:

Not expected to be carcinogenic (based on composition).

Reproductive toxicity

Assessment of reproduction toxicity:

No data available concerning reproduction toxicity.

Developmental toxicity

Assessment of teratogenicity:

No data available concerning teratogenic effects.

Specific target organ toxicity (single exposure):

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Assessment of STOT single:

| Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

| Repeated oral uptake of the substance did not cause substance-related effects.

| Repeated inhalative uptake of the substance did not cause substance-related effects.

| Repeated dermal uptake of the substance did not cause substance-related effects.

| The product has not been tested. The statement has been derived from products of a similar structure or composition.

Aspiration hazard

| No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

| LC50 (96 h) > 100 mg/l, *Leuciscus idus*

| The product has not been tested. The statement has been derived from products of a similar structure or composition.

Aquatic invertebrates:

| EC50 (48 h), daphnia

| No data available concerning toxicity for daphnia.

Aquatic plants:

| EC50 (72 h), algae

| No data available concerning toxicity for algae.

Microorganisms/Effect on activated sludge:

| The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Chronic toxicity to fish:

| No data available regarding toxicity to fish.

Chronic toxicity to aquatic invertebrates:

| No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity:

| No data available concerning terrestrial toxicity.

Mobility

Assessment transport between environmental compartments:

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The substance will not evaporate into the atmosphere from the water surface.
The product has not been tested. The statement has been derived from the properties of the individual components.
No data available.
The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
The polymer component of the product is poorly biodegradable.

Bioaccumulation potential

Bioaccumulation potential:
At the present state of knowledge, no negative ecological effects are expected.

Additional information

Other ecotoxicological advice:
According to experience, the material has no harmful effect on the environment.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:
Untampered packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Domestic transport:
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Regulations of the European union (Labelling)

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| Directive 1999/45/EC ('Preparation Directive'):

| The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other Information

| This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.