

Isogel RR/ST

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

1.1 Product identifier

Product name: ISOGEL RR/ST

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

Identified uses: Silicone Potting compound Silicone Elastomer

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distributor Information : Alen Chimica srl
Viale del Lavoro, 4
35010 Vigonza - Padova
Italy

Contact person : commerciale@alenchimica.com

Telephone : General information

0039 049 8933638

1.4

Emergency telephone number : 0039 049 8933638

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements : Not applicable
Additional Information: No data available.

2.3 Other hazards : No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Polydimethylsiloxane containing vinyl groups, with Platinum catalyst.

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Dodecamethyl cyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0001	No data available.	vPvB
Decamethyl cyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0002	No data available.	vPvB

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s). PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Dodecamethylcyclohexasiloxane	No data available.	
Decamethylcyclopentasiloxane	No data available.	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Eye contact: Rinse the eye with water immediately.

Skin Contact: After contact with skin, remove product mechanically.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:

Treatment:

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other involved materials.

5.1 Extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

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5.2 Special hazards arising from the substance or mixture:	In case of fire, carbon monoxide and carbon dioxide may be formed. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
5.3 Advice for firefighters	
Special fire fighting procedures:	All equipment used when handling the product must be grounded. Keep away from sources of ignition - No smoking.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Caution: Contaminated surfaces may be slippery. Keep container tightly closed and in a well-ventilated place. Avoid contact with skin and eyes. Ground container and transfer equipment to eliminate static electric sparks.
6.2 Environmental Precautions:	Do not allow runoff to sewer, waterway or ground.
6.3 Methods and material for containment and cleaning up:	Collect spillage with granulates, sawdust, rags or other absorbent. Shovel up and place in a container for salvage or disposal. Caution: Contaminated surfaces may be slippery.
6.4 Reference to other sections:	Remove sources of ignition.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Product may charge electrostatically during pouring or filling. Use personal protective equipment as required.
Storage conditions:	Keep away from sources of ignition - No smoking. Store in original container.
7.2 Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking.
Storage Stability:	Material is stable under normal conditions.
7.3 Specific end use(s):	No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters	
Occupational Exposure Limits	None of the components have assigned exposure limits.
Biological Limit Values	None.
8.2 Exposure controls	
Appropriate Engineering Controls:	Eyewash bottle with clean water. Use only in well-ventilated areas. Observe good industrial hygiene practices.
Individual protection measures, such as personal protective equipment	
General information:	Eyewash bottle with clean water. Use only in well-ventilated areas. When using do not eat, drink or smoke. Wash hands after handling.

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Eye/face protection:	Safety glasses with side-shields conforming to EN166
Skin protection	
Hand Protection:	Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.
Other:	Wear suitable protective clothing and eye/face protection.
Respiratory Protection:	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
Hygiene measures:	Observe good industrial hygiene practices. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. When using do not eat, drink or smoke.
Environmental exposure controls:	No data available.

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

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Faint
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	300 °C (1.013 hPa)
Flash Point:	ca. 154 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	
Flammability Limit - Lower (%):	
Vapor pressure:	1,33 hPa
Vapor density (air=1):	> 1,0
Density:	0,974 g/cm ³ (20 °C) (DIN 51757)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	> 20,5 mm ² /s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

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SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	None under normal conditions.
10.5 Incompatible Materials:	Oxidizing agents.
10.6 Hazardous Decomposition Products:	Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: According to current knowledge, polydimethylsiloxanes are not physiologically a problem; but contact with eyes can cause short time, harmless, reversible blurred vision, due to the formation of an oil film on the eye.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects
Acute toxicity
Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Dodecamethylcyclohexasiloxane LD 50 (Rat): 2.000 mg/kg

Decamethylcyclopentasiloxane No data available.

Dermal
Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Dodecamethylcyclohexasiloxane LD 50 (Rat): 2.000 mg/kg

Decamethylcyclopentasiloxane LD 50 (Rabbit): > 2.000 mg/kg

Inhalation
Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane LC50 (Rat, 4 h): 8,67 mg/l

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oxane

Repeated dose toxicity

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	NOAEL (Rat(male and female), Oral): 1.000 mg/kg
Decamethylcyclopentasiloxane	NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm

Skin Corrosion/Irritation:

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): No skin irritation
Decamethylcyclopentasiloxane	OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Serious Eye Damage/Eye
Irritation:

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Not irritating
Decamethylcyclopentasiloxane	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Respiratory or Skin
Sensitization:

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative
Decamethylcyclopentasiloxane	LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Germ Cell Mutagenicity
In vitro

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative
Decamethylcyclopentasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guideline 476)): negative (not mutagenic) Chromosomal aberration (OECD 473): negative (not mutagenic)

In vivo

Product:	No data available.
Specified substance(s)	
Dodecamethylcyclohexasiloxane	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative
Decamethylcyclopentasiloxane	(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.

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Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

Decamethylcyclopentasil
oxane No data available.

Reproductive toxicity

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

Decamethylcyclopentasil
oxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

Decamethylcyclopentasil
oxane No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

Decamethylcyclopentasil
oxane No data available.

Aspiration Hazard

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

Decamethylcyclopentasil
oxane No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity**Acute toxicity****Fish**

Product: No data available.

Specified substance(s)

Dodecamethylcyclohexas
iloxane No data available.

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Decamethylcyclopentasil oxane LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

Aquatic Invertebrates

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas iloxane No data available.

Decamethylcyclopentasil oxane EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

Chronic Toxicity
Fish

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas iloxane NOEC (Pimephales promelas, 49 d): 0,0044 mg/l

Decamethylcyclopentasil oxane NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210)
 LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)

Aquatic Invertebrates

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas iloxane NOEC (Daphnia magna, 21 d): 0,0046 mg/l
 EC50 (Sediment Invertebrate, 28 d): > 420 mg/l
 LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

Decamethylcyclopentasil oxane NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211)
 LOEC (Daphnia magna, 21 d): > 0,0015 mg/l

Toxicity to Aquatic Plants

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas iloxane EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201)
 NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201)

Decamethylcyclopentasil oxane EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD Test Guideline 201)
 NOEC : >= 0,0012 mg/l
 EC10 : > 0,0012 mg/l

12.2 Persistence and Degradability
Biodegradation

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexas iloxane No data available.

Decamethylcyclopentasil oxane activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

BOD/COD Ratio

Product No data available.
Specified substance(s)

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Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane No data available.

12.3 Bioaccumulative potential

Product: No data available.
Specified substance(s)

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test Guideline 305)

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane No data available.

12.5 Results of PBT and vPvB assessment:

vPvB: very persistent and very bioaccumulative substance.

Dodecamethylcyclohexasiloxane

vPvB: very persistent and very bioaccumulative substance.

Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). *However our understanding of the available science is that D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms*

Decamethylcyclopentasiloxane

vPvB: very persistent and very bioaccumulative substance.

Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). *However our understanding of the available science is that D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.*

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations
13.1 Waste treatment methods

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General information: The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information
ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

14.6 Special precautions for user: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

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

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,2900%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1600%

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Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:
none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:
none

15.2 Chemical safety No Chemical Safety Assessment has been carried out.

assessment:

Inventory Status

Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3: none

Training information: No data available.

Issue Date: 12.08.2018

ISOGEL RR/ST**Disclaimer:****Notice to reader**

Unless otherwise specified in section 1.2, Alen Chimica Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.