MSDS Report

Applicant: **ATHENA SPA**
Via delle Albere 13, 36045 Alonte (VI) ITALY

Description model: **ATHESIL – RTV SILICONE SEALANT**

Type Model: **M813002000001**

Place: ***Alonte (VI) Italy***
Date: ***October 12th, 2020***

ATHENA SPA
QSEE Manager & Legal Representative of Safety& Enviroment
ALBERTO ZAVARISE

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

1.1 Product identifier

Product form	Mixture
Product name	Silicon neutrally crosslinking SP 200

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

1.2.1 Relevant identified uses

Intended for general public

Use of the substance/mixture	Sealants
Main use category	Industrial and professional use

1.2.2 Uses advised against

Manufacture of food products

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
Athena SpA
Via delle Albere 13
36045 Alonte (VI) – Italy
T +39 (0)444 727272 – F +39 (0)444 727222
E-Mail: info@athena.eu
www.athena.eu

1.4 Emergency telephone number

Emergency telephone number	Athena SpA: +39 (0)444 727272
	Mon-Fri 8:00 am - 6:00 pm

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Not classified
Adverse physicochemical, human health and environmental effects	No additional information available

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]	EUH phrases: EUH210 – Safety data sheet available on request

2.3 Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable

3.2 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
O,O',O''-(methylsilylidyne)trioxime 2-pentanone	(EC no) 484-460-1 (REACH no) 01-2120004323-76-xxxx	1 - < 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general	If you feel unwell, seek medical advice. If possible, show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. In case of loss of conscience place the victim in the recovery position.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash with plenty of soap and water and rinse thoroughly.
First-aid measures after eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	Rinse mouth. Drink plenty of water as a precaution. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries	Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing agents that suit the environment. Extinguishing powder. Water spray. For a significant fire: alcohol resistant foam.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Silicon oxides. Carbon hydrates. Formaldehyde. Methanol. Ethanol. Aldehydes.

5.3 Advice for firefighters

Firefighting instructions	Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting	Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures	Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel

Emergency procedures	Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment	Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Take up with suitable material. If necessary, clean with water afterwards. Dispose of in accordance with relevant local regulations.

6.4 Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Store in a dry area. Protect from sunlight.
Storage temperature	5 - 25 °C
Prohibitions on mixed storage	Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Sealants

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Methanol (67-56-1)		
EU	Local name	Methanol
EU	IOELV TWA (mg/m³)	260 mg/m³
EU	IOELV TWA (ppm)	200 ppm
EU	Notes	Skin
Ireland	Local name	Methanol
Ireland	OELV (8-hour reference period) (mg/m³)	260 mg/m³
Ireland	OELV (8-hour reference period) (ppm)	200 ppm
Ireland	Notes (IE)	Sk, IOELV
Malta	Local name	Methanol
Malta	OEL STEL (mg/m³)	260 mg/m³
Malta	OEL STEL (ppm)	200 ppm
Malta	Notation (MT)	Skin
United Kingdom	Local name	Methanol
United Kingdom	WEL TWA (mg/m³)	266 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	333 mg/m³
United Kingdom	WEL STEL (ppm)	250 ppm
United Kingdom	Notes (UK)	Sk

Silica, amorphous (-)		
United Kingdom	Local name	Silica, amorphous
United Kingdom	WEL TWA (mg/m³)	6 mg/m³ inhalable dust 2.4 mg/m³ respirable
Ireland	Local name	Silica, amorphous
Ireland	OEL (8 hours ref) (mg/m³)	6 mg/m³ inhalable dust 2.4 mg/m³ respirable

O,O',O''-(methylsilylidyne)trioxime 2-pentanone (-)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.065 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.229 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	0.057 mg/m³
Long-term - systemic effects, dermal	0.033 mg/kg bodyweight/day
Long-term - systemic effects, oral	0.033 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.569 mg/kg dwt

PNEC sediment (marine water)	0.057 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2.15 mg/l
PNEC (Soil)	
PNEC soil	0.044 mg/kg dwt

8.2 Exposures controls

Appropriate engineering controls	Provide local exhaust or general room ventilation to minimize vapour concentrations.
Hand protection	Wear suitable gloves if needed (EN 374). Nitrile rubber, butyle rubber ≥ 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Not required, in case needed use chemical goggles or safety glasses (EN 166).
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter A (EN 14387).
Environmental exposure protection	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Paste, solid
Colour	Product-specific
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Neutral
Kinematic viscosity	No data available
Solubility	Water: Not soluble
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	No data available

Density and/or relative density	1.22 ± 0.05 kg/m³
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

VOC content (2010/75/EU)	2.8%
Explosive properties	No explosive properties
Oxidizing properties	No oxidizing properties

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No dangerous reactions known under normal conditions of use.

10.2 Chemical stability
Stable under use and storage conditions as recommended in section 7.

10.3 Possibility of hazardous reactions
None under normal use.

10.4 Conditions to avoid
High temperature. Moisture.

10.5 Incompatible materials
Strong oxidizing agents. Strong bases. Strong acids.

10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: Carbon dioxide. Carbon monoxide. Silicon oxides. Carbon hydrates. Formaldehyde. Methanol. Ethanol. Aldehydes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Not classified
	Based on available data, the classification criteria are not met

O,O',O''-(methylsilylidyne)trioxime 2-pentanone (-)	
LD50 oral rat	1234 mg/kg (OECD 425)
LD50 dermal rat	> 2000 mg/kg (EU Methode B.3)

Skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Not classified

	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

11.2 Information on other hazards

Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	Not classified

O,O',O''-(methylsilylidyne)trioxime 2-pentanone (-)	
LC50 fish	> 100 mg/l 96 h, Oncorhynchus mykiss (OECD 203)
EC50 daphnia	> 100 mg/l 48 h, Daphnia magna (OECD 202)
ErC50 algae	88 mg/l 72 h, Pseudokirchneriella subcapitata (OECD 201)
NOEC fish	100 mg/l 96 h, Oncorhynchus mykiss (OECD 203)
NOEC daphnia	≥ 100 mg/l 48 h, Daphnia magna (OECD

	202)
NOEC algae	32 mg/l 72 h, Pseudokirchneriella subcapitata (OECD 201)
NOEC microorganism	> 21.5 mg/l 28 d, activated sludge (OECD 301 B)

12.2 Persistence and degradability

O,O',O''-(methylsilylidyne)trioxime 2-pentanone (-)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % 28 d (OECD 301 B)

12.3 Bioaccumulative potential
No additional information available

12.4 Mobility in soil
No additional information available

12.5 Results of PBT and vPvB assessment
This substance does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

12.6 Endocrine disrupting properties
No additional information available

12.7 Other adverse effects
No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Regional legislation (waste)	Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	Do not empty into drains.
Waste disposal recommendations	Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing. Hardened product: Can be disposed of with household waste.
European List of Waste (LoW) code	07 02 17 - waste containing silicones other than those mentioned in 07 02 16 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
Waste code	The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any

	given product. The waste code number is therefore to be gleaned separately from each waste producer.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA

14.1 UN number or ID number

Not regulated for transport

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

14.6 Special precautions for user

14.6.1 Overland transport

Not applicable

14.6.2 Transport by sea

Not applicable

14.6.3 Air transport

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations

VOC content (2010/75/EU)	2.8%

15.1.2 National regulations
No additional information available

15.2 Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION

Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to the previous version	-

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance

PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.