Safety Data Sheet

According to Annex II to REACH Regulation (EU) 2020/878

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

1.1. Product identifier

Product name **Flowsil**

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

Intended use **Adhesive sealant.**

1.3. Details of the supplier of the safety data sheet

Name **Intek Adhesives LTD**
Full address **Unit 1, Bolam Business Park Bassington Lane**
District and Country **Cramlington, Northumberland NE23 8AL**

Tel. +44(0) 1670 734400

email address of the competent person responsible for the Safety Data Sheet **sales@intek-uk.com**

1.4. Emergency telephone number: 01670 734400

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).
However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication:

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

EUH210 Safety data sheet available on request.

Precautionary statements:

SECTION 2. Hazards identification ... / >>

2.3. Other hazards

vPvB substances contained:
OCTAMETHYLCYCLOTETRASILOXANE

PBT substances contained:
DECAMETHYLCYCLOPENTASILOXANE
DODECAMETHYL CYCLOHEXASILOXANE
OCTAMETHYLCYCLOTETRASILOXANE

The product contains substances with endocrine disrupting properties in concentration ≥ 0,1%:
OCTAMETHYLCYCLOTETRASILOXANE

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
Pentanone, O,O',O''(ethylenylsilylidyne)trioxime			
INDEX		3 ≤ x < 3.5	**Acute Tox. 4 H302, Eye Irrit. 2 H319**
EC	*7008100*		**LD50 Oral: 1000 mg/kg**
CAS	*58190628*		
REACH Reg.	*012120006148660000*		
2Pentanone, 2,2',2'',2'''(O,O',O'',O'''silanetetrayltetraoxime)			
INDEX		1.5 ≤ x < 2	**Acute Tox. 4 H302, STOT RE 2 H373, Eye Irrit. 2 H319**
EC	*9421398*		**ATE Oral: 500 mg/kg**
CAS	*1170315920*		
REACH Reg.	*012120087363530000*		
DECAMETHYLCYCLOPENTASILOXANE			
INDEX		0.3 ≤ x < 0.4	**Substance PBT**
EC	*2087649*		
CAS	*541026*		
REACH Reg.	*01211951136743*		
DODECAMETHYL CYCLOHEXASILOXANE			
INDEX		0.3 ≤ x < 0.4	**Substance PBT**
EC	*2087628*		
CAS	*540976*		
REACH Reg.	*01211951743542*		
OCTAMETHYLCYCLOTETRASILOXANE			
INDEX		0.1 ≤ x < 0.2	**Repr. 2 H361f, Aquatic Chronic 1 H410 M=10**
EC	*2091367*		
CAS	*556672*		
REACH Reg.	*01211952923836*		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.
In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

SECTION 4. First aid measures ... / >>

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with selfcontained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

RCP TLV	ACGIH TLVs and BEIs – Appendix H

DECAMETHYLCYCLOPENTASILOXANE

Predicted noeffect concentration PNEC		
Normal value in fresh water	0.0012	mg/l
Normal value in marine water	0.00012	mg/l
Normal value for fresh water sediment	2.4	mg/kg
Normal value for marine water sediment	0.24	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	1.1	mg/kg

Health Derived noeffect level DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5		5 mg/kg bw/d				
Inhalation			4.3 mg/m3	17.3 mg/m3			24.2 mg/m3	97.3 mg/m3

DODECAMETHYL CYCLOHEXASILOXANE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
RCP TLV			10			RESP

Predicted noeffect concentration PNEC		
Normal value for fresh water sediment	2.826	mg/kg
Normal value for marine water sediment	0.282	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	3.336	mg/kg

Health Derived noeffect level DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1.7 mg/kg bw/d				
Inhalation			0.3 mg/m3	2.7 mg/m3			1.22 mg/m3	11 mg/m3

SECTION 8. Exposure controls/personal protection ... / >>

OCTAMETHYLCYCLOTETRASILOXANE								
Predicted noeffect concentration PNEC								
Normal value in marine water						0.044	mg/l	
Normal value for fresh water sediment						0.128	mg/kg	
Normal value of STP microorganisms						100	mg/l	
Normal value for the terrestrial compartment						0.16	mg/kg	
Health Derived noeffect level DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	61 mg/m3	305 mg/m3	61 mg/m3	305 mg/m3				

Pentanone, O,O',O''(ethylenylsilylidyne)trioxime								
Health Derived noeffect level DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							1.198 mg/m3	VND

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
HAND PROTECTION
Protect hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
SKIN PROTECTION
Wear category I professional longsleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
EYE PROTECTION
Wear airtight protective goggles (see standard EN ISO 16321).
RESPIRATORY PROTECTION
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLVTWA and in the case of an emergency, wear opencircuit compressed air breathing apparatus (in compliance with standard EN 137) or external airintake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		viscous liquid		
Colour		colourless		
Odour		characteristic		
Melting point / freezing point		not available		
Initial boiling point		not available		
Flammability		not available		
Lower explosive limit		not available		
Upper explosive limit		not available		
Flash point	>	150	°C	

SECTION 9. Physical and chemical properties ... / >>

Autoignition temperature	>	400 °C	
Decomposition temperature		not available	
pH		not available	
Kinematic viscosity		25000 cSt	Temperature: 23 °C
Dynamic viscosity		26000 mPas	Temperature: 23 °C
Solubility		immiscible with water	
Partition coefficient: noctanol/water		not available	
Vapour pressure		not available	
Density and/or relative density		1.04	
Relative vapour density		not available	
Particle characteristics		not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	3.84 %	39.91	g/litre
VOC (volatile carbon)	0.33 %	3.44	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

SECTION 11. Toxicological information ... / >>

Delayed and immediate effects as well as chronic effects from short and longterm exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

DECAMETHYLCYCLOPENTASILOXANE

LD50 (Oral):	4800 mg/kg (Rat)

OCTAMETHYLCYCLOTETRASILOXANE

LD50 (Dermal):	> 2375 mg/kg Rat
LD50 (Oral):	4800 mg/kg Rat, male
LC50 (Inhalation vapours):	36 mg/l/4h Rat, male and female

Pentanone, O,O',O"(ethylenylsilylidyne)trioxime

LD50 (Oral):	1000 mg/kg

2Pentanone, 2,2',2'',2'''(O,O',O'',O'''silanetetrayltetraoxime)

ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may

SECTION 11. Toxicological information ... / >>

have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:
OCTAMETHYLCYCLOTETRASILOXANE

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

OCTAMETHYLCYCLOTETRASILOXANE	
LC50 for Fish	> 0.022 mg/l/96h Oncorhynchus mykiss
EC50 for Crustacea	0.015 mg/l/48h Daphnia magna
EC10 for Algae / Aquatic Plants	> 0.022 mg/l/96h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 0.0044 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	> 0.0015 mg/l Daphnia magna
Pentanone, O,O',O"(ethylenylsilylidyne)trioxime	
EC50 for Crustacea	> 117 mg/l/48h

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

vPvB substances contained:
OCTAMETHYLCYCLOTETRASILOXANE

PBT substances contained:
DECAMETHYLCYCLOPENTASILOXANE
DODECAMETHYL CYCLOHEXASILOXANE
OCTAMETHYLCYCLOTETRASILOXANE

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special nonhazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

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

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

Austrailia AICS: On or in compliance with the inventory.
Canada DSL Inventory List: On or in compliance with the inventory.
EINECS, ELINCS or NLP: On or in compliance with the inventory.
Japan (ENCS) List: On or in compliance with the inventory.
China Inv. Existing Chemical Substances: On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.
Philippines PICCS: On or in compliance with the inventory.
US TSCA Inventory: On or in compliaince with the inventory.
New Zealand Inventory of Chemicals: On or in compliance with the inventory.
Taiwan Chemical Substance Inventory: On or in compliance with the inventory.

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

Seveso Category Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product		
Point	40	
Contained substance		
Point	75	
Point	70	OCTAMETHYLCYCLOTETRASILOXANE REACH Reg.: 01211952923836
Point	70	DODECAMETHYL CYCLOHEXASILOXANE REACH Reg.: 01211951743542
Point	70	DECAMETHYLCYCLOPENTASILOXANE REACH Reg.: 01211951136743

SECTION 15. Regulatory information ... / >>

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
DECAMETHYLCYCLOPENTASILOXANE
REACH Reg.: 01211951136743

DODECAMETHYL CYCLOHEXASILOXANE
REACH Reg.: 01211951743542

OCTAMETHYLCYCLOTETRASILOXANE
REACH Reg.: 01211952923836

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)
WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 23 of the sheet:

Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H361f	Suspected of damaging fertility.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

LEGEND:
ADR: European Agreement concerning the carriage of Dangerous goods by Road
ATE: Acute Toxicity Estimate
CAS: Chemical Abstract Service Number
CE50: Effective concentration (required to induce a 50% effect)
CE: Identifier in ESIS (European archive of existing substances)
CLP: Regulation (EC) 1272/2008
DNEL: Derived No Effect Level
EmS: Emergency Schedule
GHS: Globally Harmonized System of classification and labeling of chemicals
IATA DGR: International Air Transport Association Dangerous Goods Regulation
IC50: Immobilization Concentration 50%
IMDG: International Maritime Code for dangerous goods
IMO: International Maritime Organization

SECTION 16. Other information ... / >>

INDEX: Identifier in Annex VI of CLP
LC50: Lethal Concentration 50%
LD50: Lethal dose 50%
OEL: Occupational Exposure Level
PBT: Persistent, bioaccumulative and toxic
PEC: Predicted environmental Concentration
PEL: Predicted exposure level
PMT: Persistent, mobile and toxic
PNEC: Predicted no effect concentration
REACH: Regulation (EC) 1907/2006
RID: Regulation concerning the international transport of dangerous goods by train
TLV: Threshold Limit Value
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
TWA: Timeweighted average exposure limit
TWA STEL: Shortterm exposure limit
VOC: Volatile organic Compounds
vPvB: Very persistent and very bioaccumulative
vPvM: Very persistent and very mobile
WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)

The Merck Index. 10th Edition
Handling Chemical Safety
INRS Fiche Toxicologique (toxicological sheet)
Patty Industrial Hygiene and Toxicology
N.I. Sax Dangerous properties of Industrial Materials7, 1989 Edition
IFA GESTIS website
ECHA website
Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for