SAFETY DATA SHEET

According to EC Regulation 1907/2006/EC - revision 2020/878

Revision No. 3.6

Print Date 04/02/2024 **Creation Date** 02/02/2015 **Revision date** 29/12/2023

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name: CHELADE
Product Code: 11000617G1 (CLP)

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

Recommended use

Rust converter and metal primer.

1.3. Details of the supplier of the safety data sheet

NCH UK & Ireland,
Arrowmere House, Bilston,
WV14 0QL
Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number

UK - 01902 510200 (available during Office Hours)
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations

This mixture is not classified according to EU Regulation No 1272/2008

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Keep out of reach of children
For industrial and institutional use only.

2.3. Other hazards

No additional hazards identified.
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

Chemical name	CAS No	EC No (EU Index Index No)	EU - REACH reg number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
TANNIC ACID	1401-55-4	215-753-2	-	5 - < 10	Eye Irrit. 2 (H319)	
SILICA	7631-86-9	231-545-4	01-2119379499-16	3 - < 5	-	
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	252-104-2	01-2119450011-60	1 - < 3	-	

This mixture contains substances with a Community workplace exposure limit. For any H statements mentioned in this section, see the full text in section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Get medical attention immediately if symptoms occur.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion
Rinse mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.
Inhalation
Remove from the area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

4.2. Most important symptoms and effects, both acute and delayed
Sensitisation
No information available.
Eye contact
May cause irritation as itching and redness.
Skin contact
May cause irritation as itching or redness.
Inhalation
Inhalation of mists may result in irritation to the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed
Notes to physician
Treat Symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use:. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture
When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.
Material can create slippery conditions.

5.3. Advice for firefighters
Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. Environmental precautions
Avoid release of neat product into surface water and sanitary sewage system.

6.3. Methods and material for containment and cleaning up
Methods for Containment
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).
Methods for Cleaning up
Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections
Refer to sections 7, 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)
No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

If vapours, fumes or mists are generated, their concentration in the workplace area should be kept to the lowest reasonable level. For substances.

Chemical name	European Union	The United Kingdom	France	Germany	Austria
SILICA		STEL: 18 mg/m^3 inhal inhalable dust STEL: 7.2 mg/m^3 respirable dust TWA: 6 mg/m^3 inhalable dust TWA: 2.4 mg/m^3 respirable dust TWA: 0.1 mg/m^3 respirable fraction		AGW: 4 mg/m^3 MAK: 4 mg/m^3 Bem.: DFG, Y	TWA: 4 mg/m^3
DIPROPYLENE GLYCOL METHYL ETHER	TWA 50 ppm TWA 308 mg/m^3 Possibility of significant uptake through the skin	STEL: 150 ppm STEL: 924 mg/m^3 TWA: 50 ppm TWA: 308 mg/m^3 Potential for skin absorption	VME: 50 ppm VME: 308 mg/m^3 Peau	AGW: 50 ppm AGW: 310 mg/m^3 Spitzenbegr.: 50 ppm Spitzenbegr.: 310 mg/m^3 MAK: 50 ppm MAK: 310 mg/m^3 Summe aus Dampf und Aerosolen	Skin STEL: 100 ppm STEL: 614 mg/m^3 TWA: 50 ppm TWA: 307 mg/m^3

Chemical name	Spain	Portugal	Italy	The Netherlands	Switzerland
SILICA		TWA: 0.05 mg/m^3 TWA: 0.1 mg/m^3			TWA: 4 mg/m^3
DIPROPYLENE GLYCOL METHYL ETHER	Skin TWA: 50 ppm TWA: 308 mg/m^3	TWA: 50 ppm TWA: 308 mg/m^3 Skin	TWA: 50 ppm TWA: 308 mg/m^3 Skin	TWA: 300 mg/m^3	STEL: 50 ppm STEL: 300 mg/m^3 TWA: 50 ppm TWA: 300 mg/m^3

Chemical name	Denmark	Finland	Norway	Sweden	Czech
SILICA		HTP (8h): 5 mg/m^3	TWA: 1.5 mg/m^3		PEL: 0.1mg/m^3 PEL: 4.0mg/m^3
DIPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 309 mg/m^3 Hud	HTP (8h): 50 ppm HTP (8h): 310 mg/m^3 Iho	TWA: 50 ppm TWA: 300 mg/m^3 Hud	NGV: 50 ppm NGV: 300 mg/m^3 KGV: 75 ppm KGV: 450 mg/m^3 Hud	PEL: 270mg/m^3 NPK-P: 550mg/m^3

Chemical name	Poland	Ireland
SILICA		TWA: 6 mg/m^3 TWA: 2.4 mg/m^3 STEL: 18 mg/m^3 STEL: 7.2 mg/m^3
DIPROPYLENE GLYCOL METHYL ETHER	NDSCh: 480 mg/m^3 NDS: 240 mg/m^3	TWA: 50 ppm TWA: 308 mg/m^3 STEL: 150 ppm STEL: 924 mg/m^3 Skin

DNEL (Derived No-Effect Level)

Chemical name	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL
DIPROPYLENE GLYCOL METHYL ETHER	general population general population general population workers workers	oral inhalation dermal dermal inhalation	long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects long term exposure - systemic effects	36 mg/kg bw/day 37.2 mg/m^3 121 mg/kg bw/day 283 mg/kg bw/day 308 mg/m^3

PNEC (Predicted No-Effect Concentration)

Chemical name	EU - REACH (1907/2006) - PNEC	EU - REACH (1907/2006) - PNEC

DIPROPYLENE GLYCOL METHYL ETHER	freshwater	19 mg/L
	marine water	1.9 mg/L
	freshwater (intermittent releases)	190 mg/L
	sediment (freshwater)	70.2 mg/kg sediment dw
	sediment (marine water)	7.02 mg/kg sediment dw
	sewage treatment	4168 mg/L
	soil	2.74 mg/kg soil dw

8.2. Exposure controls

Engineering Measures

General ventilation is normally adequate.

Personal Protective Equipment

Use personal protection equipment as per Regulation (EU) 2016/425.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 - P2 / P3 Particle filters.

Hand Protection

Long term use eg continuous wear or immersion ;. Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Nitrile rubber (0.4 mm). PVC (0.7mm). Neoprene gloves (0.4 mm). Breakthrough time of the glove material (protective index 6, breakthrough time: >480 min). For break through times, refer to glove manufacturer's recommendations.

Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General Hygiene Considerations

Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Information below relates to typical values and does not constitute a specification.

Appearance	Off-white
Odour	Slight
Physical state	Liquid
pH	2
Flash Point	Not relevant
Specific gravity	1.27
Viscosity	Viscous
Solubility	Soluble in water
Autoignition Temperature	250 °C
Boiling Point/Range	No information available
Melting Point/Range	No information available
Flammability Limits in Air %	Not applicable
Evaporation Rate	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Explosive properties	No information available
Oxidising Properties	No information available
VOC content	1.4 %

9.2. Other information

No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Not considered as highly reactive. See further information below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

10.4. Conditions to avoid

No conditions to be specially mentioned.

10.5. Incompatible materials

Oxidising agents. Reducing agents. Strong bases.

10.6. Hazardous decomposition products

None under normal storage conditions and use.

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Silicon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Product Information

The product itself has not been tested.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TANNIC ACID	= 2260 mg/kg (Rat)		
SILICA	= 7900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 58.8 mg/L (Rat) 4 h
DIPROPYLENE GLYCOL METHYL ETHER	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	

Sensitisation

No information available.

Skin contact

May cause irritation as itching or redness.

Inhalation

Inhalation of mists may result in irritation to the respiratory tract.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.

Reproductive Effects

There are no known substances in this product with effects on reproduction.

STOT - single exposure

Based on available data, the classification criteria are not met

STOT - repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

11.2 Information on Other Hazards

The product does not contain substances that have been identified as an endocrine disruptor

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

The product itself has not been tested.

Ecotoxicity effects

Contains substance(s) known to be hazardous to the aquatic environment. pH values above 10.5 may be fatal to fish and other aquatic organisms.

Chemical name	Toxicity to Fish	Crustacea	Toxicity to Algae
SILICA	LC50 = 5000 mg/L Brachydanio rerio 96 h	7600: 48 h Ceriodaphnia dubia mg/L EC50	EC50 = 440 mg/L Pseudokirchneriella subcapitata 72 h
DIPROPYLENE GLYCOL METHYL ETHER	LC50 > 10000 mg/L Pimephales promelas 96 h	1919: 48 h Daphnia magna mg/L LC50	

12.2. Persistence and degradability

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

12.3. Bioaccumulative potential

Component information below.

Chemical name	Partition coefficient
DIPROPYLENE GLYCOL METHYL ETHER	-0.064

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6 Endocrine disrupting properties

The product does not contain substances that have been identified as an endocrine disruptor

12.7 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging
Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of in accordance with local regulations.
EWC waste disposal No
The following EWC/ AVV waste codes may be applicable:
07 07 01* aqueous washing liquids and mother liquors
Other Information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.
Not classified for transport as dangerous goods

14.5. Environmental hazards
The mixture is not environmentally hazardous for transport
14.6. Special precautions for user
No special precautions.
14.7 Maritime transport in bulk according to IMO instruments
Packaged product, not typically transported in IBC's
Additional information
The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

Other regulatory information
MAL Code (Denmark) : 00-3 (1993).
Directive 2004/42/EC:
EU Limit Value for this product (cat A/i): 140g/l (2010) This product contains max 20 g/l VOC

15.2. Chemical safety assessment
No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3
H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Prepared By Austen Pimm
Creation Date 02/02/2015
Revision date 29/12/2023
Revision summary
CLP update. SDS sections updated 2 15 3 16 8

Abbreviations
REACH: Registration Evaluation Authorisation Restriction of Chemicals
EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefahrdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Reglement international concernant le transport des merchandises dangereuses par chemin der fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook

IUCLID / RTECS International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

Further Information

Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature literature sources e.g. IUCLID / RTECS
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet