SAFETY DATA SHEET

Version: 12.0 Date: 15th August 2023

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

1.1 Product identifier

Product Name	**SuperCorr A**
Formulation Number	**21002**
UFI Code	**E35V-61ST-G00K-NCEU**
NATO Stock Number	**NATO NSN 8030-99-226-6966**
Nanoform	**This product does not contain nanoparticles**

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

Identified Use(s)	Anti-corrosion thin film lubricant. For use on electronic circuitry, switchgear, wiring, metal surfaces by spray application.
Uses Advised Against	None known.

1.3 Details of the supplier of the safety data sheet

Company Identification	Enviro Tech (Europe) Ltd. Aissela 46 High Street, Esher, Surrey, KT10 9QY, United Kingdom
Telephone	+44 (0) 208 281 6370
E-Mail (competent person)	contactenvirotech@envirotech-europe.com

1.4 Emergency telephone number

24 HR. EMERGENCY TELEPHONE NUMBERS	NCEC	+44 (0) 1270 502891
Languages spoken		English

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Aerosol Category 3; H229
Eye Irrit. 2; H319
Acute Tox. 4; H332
STOT SE 3; H336
Aquatic Chronic 3; H412

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name: **SuperCorr A**

Contains: trans -1, 2 Dichloroethylene

Hazard Pictogram(s)

Signal Word(s): WARNING

Hazard Statement(s):

H229: Pressurised container: May burst if heated.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P261: Avoid breathing mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.

Supplemental information — EUH209: Can become highly flammable in use.

Label elements according to 75/324/EEC

Labelling Requirements — P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251: Pressurised container - Do not pierce or burn, even after use.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

83 % by mass of the contents are flammable.

2.3 Other hazards — None known

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
trans -1, 2 Dichloroethylene	<85	156-60-5	205-860-2	01-2120093504-55-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H336 Aquatic Chronic 3; H412
1,1,1,2,2,3,4,5,5,5-Decafluoropentane	<10	138495-42-8	420-640-8	01-2119446695-28-xxxx	Aquatic Chronic 3; H412
Nitrogen	< 3	7727-37-9	231-783-9	Not yet assigned in the supply chain	Press. Gas; H280

Note: For full text of H phrases see section 16.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Self-protection of the first aider — Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.

Inhalation — IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact — IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion — IF SWALLOWED: Rinse mouth. Obtain medical attention if symptoms appear or if large quantities have been ingested. Do not induce vomiting unless instructed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed — Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

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

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1	**Extinguishing media**	
	Suitable Extinguishing Media	As appropriate for surrounding fire.
	Unsuitable extinguishing Media	Direct water jet may spread the fire.
5.2	**Special hazards arising from the substance or mixture**	Not flammable but will support combustion. Can become highly flammable in use. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. Combustion products: Carbon monoxide, Carbon dioxide, Hydrogen fluoride, Fluorinated hydrocarbons, Carbonyl halides, Hydrogen chloride.
	Liquid	Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Can form explosive mixture with air.
5.3	**Advice for fire-fighters**	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. Take precautionary measures against static discharges.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Eliminate sources of ignition. Shut off leaks if without risk. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing mist/vapours/spray.
	Large spillages:	Evacuate the area and keep personnel upwind.
6.2	**Environmental precautions**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
6.3	**Methods and material for containment and cleaning up**	Allow small spillages to evaporate provided there is adequate ventilation. Do not pierce or burn container, even after use. Containers of this material may be hazardous when empty since they retain product residue. Provided it is safe to do so, isolate the source of the leak. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste. Allow small spillages to evaporate provided there is adequate ventilation. Take precautionary measures against static discharges.
6.4	**Reference to other sections**	See Section: 8,13

7. SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid breathing mist/vapours/spray. Do not expose to temperatures exceeding 50°C/ 122°F. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin and eyes. Wear protective gloves/eye protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take precautionary measures against static discharges.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Opened containers should be carefully resealed and stored in an upright position.
	Storage temperature	Keep cool. Protect from sunlight.
	Storage life	Stable under normal conditions. 5 Year(s) (Refer to container labels.)
	Incompatible materials	Keep away from: Strong oxidising agents. Strong acids and alkali. Alkali metals. Alkaline earth metals. Potassium hydroxide
7.3	**Specific end use(s)**	See Section: 1.2

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Propan-2-ol	67-63-0	400	999	500	1250	WEL

Source: Workplace Exposure Limit (UK HSE EH40), IOELV: Indicative Occupational Exposure Limit Value

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not yet assigned in the supply chain

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Local exhaust recommended. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Vapour is heavier than air therefore low level extraction is recommended.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place.

Eye/face protection

Use eye protection according to EN 166, designed to protect against liquid splashes.

Skin protection

Hand protection: Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated gloves should be carefully rinsed with water before reuse. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 4, corresponding > 120 minutes of permeation time according to EN 374. Recommended: Fluorinated rubber - FKM (Minimum thickness: 0.4mm)

Materials to avoid: Butyl rubber, Polychloroprene - CR, Nitrile rubber, Polyvinyl chloride - PVC

Skin protection: Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection

Not normally required. In case of insufficient ventilation, wear suitable positive pressure respiratory protection equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

No specific measures identified.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Low Viscosity liquid
Colour	Dark Brown
Odour	Sweet organic solvent

Odour Threshold	Not established
pH	Neutral
Melting Point/Freezing Point	-50°C
Initial boiling point and boiling range	43 °C
Flash point	Not applicable - Non-flammable Aerosol
Auto-ignition temperature	Not established
Decomposition temperature	Not established
Evaporation Rate	Not established
Flammability (solid, gas)	Not relevant
Upper/lower flammability or explosive limits	UEL: 14.0% LEL: 7.0% (ASTM E681)
Vapour pressure	51.7 Kpa @ 25°C
Vapour density	Not established
Relative density	1.24 @ 20°C
Solubility(ies)	Slightly soluble in: Water
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition Temperature	Not established
Kinematic Viscosity	Not established
Explosive properties	Can form explosive mixture with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
Oxidising properties	Not oxidising

9.2 Other information None known

10. SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	Stable under normal conditions. Can form explosive mixture with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
10.4	**Conditions to avoid**	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Do not spray on an open flame or other ignition source.
10.5	**Incompatible materials**	Keep away from: Strong oxidising agents. Strong acids and alkali. Alkali metals. Alkaline earth metals. Potassium hydroxide
10.6	**Hazardous decomposition product(s)**	None anticipated. Combustion products: Carbon monoxide, Carbon dioxide, Hydrogen fluoride, Fluorinated hydrocarbons, Carbonyl halides, Hydrogen chloride.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
Acute toxicity - Inhalation	Mixture: Acute Tox. 4; H332: Harmful if inhaled. Acute Toxicity Estimate Mixture Calculation: LC50 >20 mg/l Vapour
trans -1, 2 Dichloroethylene	Acute Tox. 4; H332: Harmful if inhaled. Harmonised Classification
Acute toxicity - Skin Contact	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Eye Irrit. 2; H319: Causes serious eye irritation.
trans -1, 2 Dichloroethylene	Eye Irrit. 2; Causes serious eye irritation. Irritating to eyes. (rabbit) (OECD 405)
Respiratory or skin sensitization	Mixture Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.

	STOT - single exposure	Mixture: STOT SE 3; May cause drowsiness or dizziness.
	trans -1, 2 Dichloroethylene	STOT SE 3, H366; May cause drowsiness or dizziness. Expert judgement and weight of evidence. Observations relevant to classification. (rat) (OECD 403) (ECHA registration dossier)
	STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2	**Information on other Hazzards**	
11.2.1	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meet the criteria.
11.2.2	Other information	None Known

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. Estimated LC50 (Mixture): > 10 to ≤ 100 mg/l.
	trans -1, 2 Dichloroethylene	Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. Short Term (acute): LC50 (Daphnia magna) 220 mg/l (48 hours) (LeBlanc GA 1980) Long Term (Chronic): No data
	1,1,1,2,2,3,4,5,5,5-Decafluoropentane	Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. Harmonised Classification Short Term (acute): LC50 (fish) mg/l 27.2 (OECD 203) Long Term (Chronic): Aquatic invertebrates: EC50 adult mortality = 6.17 mg/L EC50 reproduction ≥4.19, but <9.1 mg/L NOEC reproduction = 1.72 mg/L LOEC reproduction = 4.19 mg/L (OECD 211)
12.2	**Persistence and degradability**	No data for the mixture as a whole.
	Trans -1, 2 Dichloroethylene	Slow biodegradative activity concomitant with relatively moderate rate of volatilization – 28d (OECD 301 D)
	1,1,1,2,2,3,4,5,5,5-Decafluoropentane	Not biodegradable. (OECD 301 D)
	Nitrogen	No data
12.3	**Bioaccumulative potential**	No data for the mixture as a whole.
	trans -1, 2 Dichloroethylene	The substance has low potential for bioaccumulation. Log Kow: 2.06
	1,1,1,2,2,3,4,5,5,5-Decafluoropentane	The substance has low potential for bioaccumulation. Log Kow: 2.7
	Nitrogen	No data
12.4	**Mobility in soil**	No data for the mixture as a whole.
	trans -1, 2 Dichloroethylene	The substance is predicted to have moderate mobility in soil. Solubility (Water): 6.3 g/L @ 25°C
	1,1,1,2,2,3,4,5,5,5-Decafluoropentane	The substance is predicted to have high mobility in soil. The product is volatile and will partition into the atmosphere.
	Nitrogen	No data
12.5	**Results of PBT and VPVB assessment**	Not classified as PBT or vPvB.
12.6	**Endocrine disrupting properties**	This product does not contain a substance that has endocrine disrupting properties with respect to non-targeted organisms as no components meet the criteria.
12.7	**Other adverse effects**	None Known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Do not pierce or burn container, even after use. Make sure that packaging is completely empty before recycling. Containers of this material may be hazardous when empty since they retain product residue.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	HP 4: Irritant – skin irritation and eye damage HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP 6: Acute toxicity HP 14: Ecotoxic

14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO
14.1	**UN number**	UN1950	UN1950	UN1950
14.2	**UN proper shipping name**	AEROSOLS, Non-flammable	AEROSOLS, Non-flammable	AEROSOLS, Non-flammable
14.3	**Transport hazard class(es)**	2.2 Code 5A	2.2 EmS F-C, S-U	2.2
14.4	**Packing group**	Not applicable	Not applicable	Not applicable
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	No information available.	No information available.	No information available.
14.8	**Maritime transport in bulk according to IMO instruments**	Not applicable		
14.9	**Additional Information**	None Known		

15. SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or Restrictions On Use

trans -1, 2 Dichloroethylene	Entry 40: Restricted in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.
Directive2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-lll-Directive]	trans -1, 2 Dichloroethylene: Annex 1 – Part 1 – (Categories of dangerous substances)
Directive 2010/75/EU on industrial emissions	trans -1, 2 Dichloroethylene: Annex II – Air polluting substance
To Follow:	Directive 98/24/EC of 7th April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
F-Gas (Fluorinated Greenhouse Gases) Regulation	
1,1,1,2,2,3,4,5,5,5-Decafluoropentane	Annex I, Section 1: Hydrofluorocarbons (HFCs); GWP = 1640

15.1.2 National regulations

Germany	Water hazard class: 2 (self classification)

15.2 Chemical Safety Assessment A chemical safety assessment is not required under REACH.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Change from Carbon dioxide to Nitrogen. Please review SDS with care. – V12

References:

Safety Data Sheets for ingoing ingredients.

Harmonised Classification and Existing ECHA registration(s) for trans -1, 2 Dichloroethylene (CAS No. 156-60-5); 1,1,1,2,2,3,4,5,5,5-Decafluoropentane (CAS No. 138495-42-8) and the Classification and Labelling Inventory for Carbon dioxide (CAS No. 124-38-9)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Aerosol Category 3; H229	Test Result
Eye Irrit. 2; H319	Threshold Calculation
Acute Tox. 4; H332	Acute Toxicity Estimate Mixture Calculation
STOT SE 3; H336	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation

LEGEND

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AND	ADN: European Agreement on the International Transport of Dangerous Goods by inland Waterways
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC50	Half maximal effective concentration
IATA	International Air Transport Organisation
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
Kow	Partition coefficient: n-octanol/water
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
REACH	Regestration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods
vPvB	vPvT: very Persistent and very Toxic

Hazard classification / Classification code:

Press. Gas; Pressurised gas
Aerosol Category 3; Aerosol, Category 3
Flam. Liq. 2; Flammable Liquid, Category 2
Eye Irrit. 2; Eye Irritation, Category 2
Acute Tox. 4; Acute toxicity, Category 4
STOT SE 3; Specific target organ toxicity — single exposure, Category 3
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3

Hazard Statement(s)

H280: Contains gas under pressure; may explode if heated.
H229: Pressurised container: May burst if heated.
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheey (e SDS)

Exposure scenarios for substances in this preparation are not available.