

Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: **IP-VC™**

Version: 5

Date: 2024.09.06

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

1.1 Product identifier

Trade name	IP-VC™
CAS number	183476-82-6

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

Recommended Use	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 Consumer uses: Private households/general public/consumers SU22 Professional uses
Uses advised against	Not determined
Product category	Not determined
Process category	Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
CORUM INC.
6FL., No.360, Ruei Guang Rd.,
Neihu Dist., Taipei 114729, Taiwan
Further information obtainable from
marketing.support@corum.com.tw

1.4 Emergency telephone number

Company phone number	CORUM Tel. 886-2-8751-6060 Fax. 886-2-8751-6363
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Label according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS09

Signal word

Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:**

Based on available data, the ingredients of this mixture do not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

vPvB:

Based on available data, the ingredients of this mixture do not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

Determination of endocrine-disrupting properties

The product does not contain ingredients with endocrine-disrupting properties for humans.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
Tetrahexyldecyl Ascorbate	-	(CAS No.) 183476-82-6 (EC No.) 430-110-8	Aquatic Chronic 1 H410	M(Chronic)=1	100%

3.2 Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****General information**

Remove contaminated clothing. Seek medical treatment.

After inhalation

Supply fresh air; seek medical advice if symptoms persist.

After skin contact

Immediately wash with soap and copious amounts of water
If symptoms develop, seek medical attention.

After eye contact

Rinse opened eyes for 15 minutes under running water.
If symptoms persist, consult a doctor.

After swallowing

Rinse mouth with water Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed**Symptoms**

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed**Note to physicians**

No further relevant information available.

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SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media
 Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media
 Not determined
- 5.2 Special hazards arising from the substance or mixture**
 No further relevant information available
- 5.3 Advice for firefighters**
Protective equipment:
 Wear protective clothing and glasses.
 Wear self-contained breathing apparatus with facepiece.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
 May have particular danger of slipping on leaked/spilled product.
 Avoid contact with skin, eyes and clothes.
- 6.2 Environmental precautions**
 Do not allow product to reach sewage system or any water course.
- 6.3 Methods and material for containment and cleaning up**
 Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Sweep up, place in a bag and hold for waste disposal.
- 6.4 Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precaution for safe handling**
Advice on safe handling
 No special precautions are necessary if used correctly.
 Avoid free fall and splashing.
 Prevent the risk of slipping.
- Information about fire - and explosion protection:**
 No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage conditions
 Protect from contacting with light and moisture.
 Store in sealed containers in a cool and dry place.
- Incompatible materials**
 None known based on information supplied.
- Storage class (VbF)**
 No
- Requirements to be met by storerooms and receptacles**

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Information about storage in common storage facility
No special measures required.

Further information about storage conditions
Not required

Further information about storage conditions
None

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Exposure limits

The product does not contain relevant quantities of materials with critical values that have to be monitored at the workplace.

DNEL

Not determined

PNEC

Not determined

Additional information

The valid lists during this review were used as a basis.

8.2 Exposure controls

Appropriate engineering controls

Ensure that eyewash and safety showers are in close proximity to work location. Good general ventilation is recommended for handling the product. No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

Personal protective equipment

Respiration protection

Not necessary if room is well-ventilated.

Hands protection

Protective gloves



The glove material has to be impermeable and resistant to the product/the substance/the preparation.
For prolonged or repeated contact use protective gloves.
Chemical resistant gloves (EN374)

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Chemical safety goggles.
General protective measure	Avoid contact with the eyes and skin.
General hygiene measure	The usual precautionary measures are to be adhered to when handling chemicals.
Environmental exposure controls	No further relevant information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Liquid
Color	Colorless to light yellow
Odor	Faint characteristic
Odor threshold	Not determined

Property

pH value (3% aq.sol.)	Not determined
Melting point/Melting range	Not determined
Boiling point/Boiling range	164 °C
Flash point	226.5 °C
Flammability (solid, gaseous)	Not determined
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Not determined
Danger of explosion	Not determined
Explosion limit	
Lower	Not determined
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure at 25 °C	Not determined
Vapor density at 20 °C	Not determined
Relative density	Not determined
Evaporation rate	Not determined
Solubility (water 20 °C)	Not determined
Partition coefficient (n-octanol/water at 24 °C)	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined

9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined
Specific gravity (20 °C)	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable Gases and Chemically Unstable Gases	

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Flammable Aerosols	Void
Oxidising Gases	Void
Gases Under Pressure	Void
Flammable Liquids	Void
Flammable Solids	Void
Self-reactive Substances and Mixtures	Void
Pyrophoric Liquids	Void
Pyrophoric Solids	Void
Self-heating Substances and Mixtures	Void
Substances and Mixtures which in contact with water emit flammable gases	Void
Oxidising Liquids	Void
Oxidising Solids	Void
Organic Peroxides	Void
Substances and Mixtures corrosive to Metals	Void
Desensitized Explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

The product is stable under ordinary condition.

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Heat, fire, moisture and incompatible substances.

10.5 Incompatible material

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	Tetrahexyldecyl Ascorbate CAS:183476-82-6
Acute toxicity	Not Classified
Skin corrosion/irritation	Non irritant (IP-VC™)
Serious eye damage/irritation	Slightly irritant (dilution at 10%)
Respiratory tract	Not determined
Respiratory/skin sensitization	Non irritant and non sensitizing (dilution at 10% in paraffin oil)

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Toxicokinetics, metabolism and distribution	Not determined
Repeated dose toxicity	Not determined
Germ Cell mutagenicity	Non mutagenic (IP-VC™)
Carcinogenicity	Not determined
Reproductive toxicity	Not determined
STOT-single exposure	Not determined
STOT-repeated exposure	Not determined
Aspiration hazard	Not determined

*from ECHA webpage registration data

11.2 Information on toxicological effects

Endocrine disrupting properties	Substance is not listed.
Phototoxicity	Non phototoxic
Cytotoxicity	No cytotoxic

SECTION 12: ECOLOGICAL INFORMATION

Name	Tetrahexyldecyl Ascorbate CAS:183476-82-6
12.1 Toxicity Aquatic toxicity	<p>*Short-term toxicity to aquatic invertebrates, under the conditions of the present study NIKKOL VC-IP caused no immobilisation of daphnids after 24 hours of exposure. After 48 hours of exposure 75% of daphnids were immobilized in the filtered solution prepared at a loading rate of 100 mg/l. In the lower treatments no daphnids were immobilised. The 24-hour EC50 is expected to be higher than the maximum solubility and the 48-hour EC50 is < 0.09 mg/l.</p> <p>*Toxicity to aquatic algae and cyanobacteria, under the conditions of the present study with Pseudokirchneriella subcapitata, no reduction of growth rate or inhibition of yield was recorded at or below the concentration present in a glass wool filtered solution prepared at a loading rate of 100 mg/l (NOEC > 0.09 mg/l). Hence, both the EC50 for growth rate reduction (ERC50: 0-72h) and the EC50 for yield inhibition (EYC50: 0-72h) exceeded the maximum solubility in test medium.</p>
12.2 Persistence and degradability	No further relevant information available.
12.3 Bioaccumulative potential	*Biodegradation in water, ready biodegradability.
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.

*from ECHA webpage registration data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation	Smaller quantities can be disposed of with household waste. Observe all federal, state and local environmental regulations.
European waste catalogue HP14	Ecotoxic

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13.2 Uncleaning packaging Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	3082
ADN	3082
IMDG	3082
IATA	3082

14.2 UN proper shipping name

ADR/RID	RQ, Environmentally Hazardous Substance, Liquid, N.O.S.
ADN	RQ, Environmentally Hazardous Substance, Liquid, N.O.S.
IMDG	RQ, Environmentally Hazardous Substance, Liquid, N.O.S.
IATA	RQ, Environmentally Hazardous Substance, Liquid, N.O.S.

14.3 Transport hazard class(es)

ADR/RID	Class 9: Miscellaneous
ADN	Class 9: Miscellaneous
IMDG	Class 9: Miscellaneous
IATA	Class 9: Miscellaneous

14.4 Packing group

ADR/RID	Packing Group III
ADN	Packing Group III
IMDG	Packing Group III
IATA	Packing Group III

14.5 Environmental hazard

Marine pollutant	No
Special marking	Symbol (fish and tree)

14.6 Special precautions for user

Special precaution for user	Not applicable
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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

14.8 ICAO/IATA – DGR

UN number	3082
UN proper shipping name	RQ, Environmentally Hazardous Substance, Liquid, N.O.S.
Transport hazard class	Class 9: Miscellaneous
Packing group	Packing Group III

14.9 Maritime transport in bulk according to

IMO instruments	Not applicable
UN "Model Regulation"	Not applicable

SECTION 15: REGULATORY INFORMATION

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

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Name	Tetrahexyldecyl Ascorbate CAS:183476-82-6
Inventory - United States - Toxic Substances Control Act (TSCA)	N
Inventory - Canada - Domestic Substances List (DSL)	N
Inventory - Canada - Non-Domestic Substances List (NDSL)	N
Inventory - Canada - Revised In Commerce List (R-ICL)	Y
ECHA Inventory of substances	Y
Japan Existing and New Chemical Substances (ENCS)	N
Inventory of Existing Chemical Substances in China (IECSC)	Y
Korean Existing and Evaluated Chemical Substances (KECL)	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	N
Australian Inventory of Industrial Chemicals (AIIC)	Y
New Zealand Inventory of Chemicals	Y
TCSI - Taiwan Chemical Substance Inventory	Y
OECD - List of High Production Volume Chemicals	N

Y : listed, N : not listed, E : exempted

Directive 2004/42/EC

Seveso category E1 E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential)

Substance is not listed.

National regulations

Other regulations, limitations and prohibitive regulations

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Not determined

Substances of very high concern (SVHC) according to REACH, Article 59(10)

Substance is not listed.

15.2 **Chemical safety assessment**

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

GHS: Globally Harmonized System of Classification and Labeling Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstract Service (division of the American Chemical Society)

VbF: Ordinance on the storage of combustible liquids, Austria

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT: Specific Target Organ Toxicity

ADR: Agreement on Dangerous Goods by Road

RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

Sources

Own data from manufacturer