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SECTION 11: Toxicological information (....)

- Specific target organ toxicity (STOT) - single exposure
Based on the available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on the available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Propene	No data available	10 000 ppm	No data available

- Aspiration hazard
Based on the available data, the classification criteria are not met
- Contact with eyes
Extremely cold material, can cause burns similar to frostbite.
- Contact with skin
Extremely cold material, can cause burns similar to frostbite.
- Ingestion
As this product is a gas, refer to the inhalation section
- Inhalation
Danger of suffocation at high concentrations due to oxygen displacement
Exposure to oxygen deficient atmosphere may cause the following symptoms: dizziness, salivation, nausea, vomiting, loss of mobility/consciousness.
Propylene is a central nervous system (CNS) depressant and a mild anaesthetic.
In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves.
In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

11.2 Information on other hazards

- Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Propene	(4 days) 51.7 mg/L	LC ₅₀ (48 h) 28.2 mg/L	(4 days) 12.1 mg/L

12.2 Persistence and degradability

Substances

Chemical Name	Biodegradation
Propene	Readily biodegradable (100%)

12.3 Bioaccumulative potential

- Bioaccumulation is not expected

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SECTION 12: Ecological information (....)

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Propene	Low potential for bioaccumulation (Log Kow < 3)	(Log Pow) 1.77 @ 20 °C

12.4 Mobility in soil

- No data available

Substances

Chemical Name	Adsorption/desorption
Propene	No data available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

- No information available

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Contact supplier if guidance is required
- Return unused product in original cylinder to supplier
- Do not discharge into areas where there is a risk of forming an explosive mixture with air
- Waste gas should be flared through a suitable burner with flash back arrestor
- Do not discharge into any place where its accumulation could be dangerous
- Disposal should be in accordance with local, state or national legislation
- Cylinders should be returned to suppliers

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): HP 3 Flammable

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.: 1077

14.2 UN proper shipping name

- Proper Shipping Name: PROPYLENE

14.3 Transport hazard class(es)

- Hazard Class: 2.1

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

SECTION 14: Transport information (....)

- Not Classified

14.6 Special precautions for user

- Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
- Avoid transport on vehicles where the load space is not separated from the driver's compartment.
- Before transporting product containers ensure there is adequate ventilation and:
 - they are firmly secured and the cylinder valve is closed and not leaking;
 - the valve outlet cap nut or plug (where provided) is correctly fitted;
 - the valve protection device (where provided) is correctly fitted.
- The transportation information is not intended to convey all specific regulatory data relating to this material.
- For complete transportation information, contact a SGS Gases customer service representative.

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

14.8 Road/Rail (ADR/RID)

- ADR UN No.: 1077
- Proper Shipping Name: PROPYLENE
- ADR Hazard Class: 2
- ADR Packing Group: Not applicable
- Tunnel Code: (B/D)

14.9 Sea (IMDG)

- IMDG UN No.: 1077
- Proper Shipping Name: PROPYLENE
- IMDG Hazard Class: 2.1
- IMDG Pack Group.: Not applicable

14.10 Air (ICAO/IATA)

- ICAO UN No.: 1077
- Proper Shipping Name: PROPYLENE
- ICAO Hazard Class: 2.1
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH
- The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- Seveso III Directive (2012/18/EU, Dangerous Substances in Annex I: Listed
- Restrictions on use according to Annex XVII to REACH Regulation: None

15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SECTION 16: Other information (....)

Sources of data: Information from published literature and company data

Revision No. 2.0.0. Revised August 2021.

Changes made: Revised to conform to latest version of REACH Annex II.

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H220: Extremely flammable gas
- H280: Contains gas under pressure; may explode if heated

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC₅₀: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC₅₀: Lethal Concentration, 50%
- LD₅₀: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
