MAX™ Permanent Line Marker Spray Paint - Orange

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

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

1.1 Product identifier

Product Name	MAX™ Permanent Line Marker Spray Paint - Orange

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

Identified Use(s)	Spray paint aerossol.
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	
Company Identification	CMT Group
Address of Supplier	Riverbridge House Anchor Boulevard
Postal code	Dartford DA2 6SL Kent, United Kingdom
Telephone:	0208311 1144
E-mail	sales@cmt.co.uk
Website	https://www.cmt.co.uk/

1.4 Emergency telephone number

National response centre	
Address	NHS Direct
Emergency Phone No.	+44 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Aerosol 1 :Extremely flammable aerosol. Pressurised container: May burst if heated. Skin Irrit. 2 :Causes skin irritation. Eye Irrit. 2 :Causes serious eye irritation. STOT SE 3 :May cause drowsiness or dizziness.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name: MAX™ Permanent Line Marker Spray Paint - Orange

Hazard Pictogram(s)

GHS02

GHS07

Signal Word(s): Danger

Hazard Statement(s):

H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary Statement(s):

P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
P501: Dispose of contents in accordance with local, state or national legislation.

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2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
acetone	67-64-1	200-662-2	10-25	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS02 GHS07
titanium dioxide	13463-67-7	236-675-5	15-20	EUH211	None
isobutane	75-28-5	200-857-2	15-20	Flam. Gas 1A H220	GHS02
5-[(2,3-dihydro-6-methyl-2-oxo-1H-benzimidazol-5-yl)azo]barbituric acid (orange pigment)	72102-84-2	276-344-2	13-20	Not classified	None
n-butyl acetate	123-86-4	204-658-1	5-10	Flam. Liq. 3 H226 STOT SE 3 H336	GHS02 GHS07
xylene	1330-20-7	215-535-7	5-10	Flam. Liq. 3 H226 Acute Tox. 4 H312 Skin Irrit. 2 H315 Acute Tox. 4 H332	GHS02 GHS07
propane	74-98-6	200-827-9	5-10	Flam. Gas 1A H220	GHS02
butane	106-97-8	203-448-7	5-10	Flam. Gas 1A H220	GHS02
ethyl acetate	141-78-6	205-500-4	3-8	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS02 GHS07
2-butoxyethanol	111-76-2	203-905-0	0.5-7	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 H332	GHS07
2-methoxy-1-methylethyl acetate	108-65-6	203-603-9	0-6.99	Flam. Liq. 3 H226	GHS02

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

Skin Contact: Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact: 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 accidentally, do not induce vomiting and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness.

Ingestion: may cause gastrointestinal disturbances. Symptoms: sore throat,

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abdominal pain, nausea, vomiting.
Skin contact: may cause skin irritation, redness and pain.
Eye contact: may cause irritation to eyes, redness and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Call a POISON CENTRE/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media: As appropriate for surrounding fire. Extinguish with foam, carbon dioxide or dry agent.

Unsuitable extinguishing media: None.

5.2 Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C.
May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurised container - Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep out of reach of children.

Storage temperature: Do not expose to temperatures exceeding 50°C/ 122°F.
Storage life: Stable under normal conditions.
Incompatible materials: None known.

7.3 Specific end use(s)

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Acetone	67-64-1	500	1210	1500	3620	
Titanium dioxide total inhalable	13463-67-7	-	10	-	-	
Titanium dioxide respirable	13463-67-7	-	4	-	-	
Xylene, o-,m-,p- or mixed	1330-20-7	50	220	100	441	Sk,

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isomers						BMGV
1-Methoxypropyl acetate	108-65-6	50	274	100	548	Sk
Ethyl acetate	141-78-6	200	734	400	1468	
2-Butoxyethanol	111-76-2	25	123	50	246	Sk, BMGV
Butyl acetate	123-86-4	150	724	200	966	
Butane	106-97-8	600	1450	750	1810	(b)

Region	Source
United Kingdom	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark	Notes
Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
BMGV	Biological monitoring guidance values are listed in Table 2.
(b)	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)

Biological Exposure Indices						
Substances	CAS Number	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments
Xylene, o-, m-, p- or mixed isomers	1330-20-7	650 mmol methyl hippuric acid/mol creatinine in urine	Post shift			
2-Butoxyethanol	111-76-2	240 mmol butoxyacetic acid/mol creatinine in urine	Post shift			

Remark	Notes

DNEL

Acetone (CAS 67-64-1)				
Workers				
Exposure route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral route	Not relevant	Not relevant	Not relevant	Not relevant
Inhalation route	Not relevant	Not relevant	Not relevant	1 210 mg/m^3
Cutaneous route	Not relevant	Not relevant	Not relevant	186 mg/kg bw/d
Consumers				
Exposure route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral route	Not relevant	Not relevant	Not relevant	62 mg/kg bw/d
Inhalation route	Not relevant	Not relevant	Not relevant	200 mg/m^3
Cutaneous route	Not relevant	Not relevant	Not relevant	62 mg/kg bw/d

Xylene isomers (CAS 1330-20-7)				
Workers				
Exposure route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral route	Not relevant	Not relevant	Not relevant	Not relevant
Inhalation route	442 mg/m^3	442 mg/m^3	221 mg/m^3	221 mg/m^3
Cutaneous route	Not relevant	Not relevant	Not relevant	212 mg/kg bw/d
Consumers				
Exposure route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral route	Not relevant	Not relevant	Not relevant	12.5 mg/kg bw/d
Inhalation route	260 mg/m^3	260 mg/m^3	65.3 mg/m^3	65.3 mg/m^3
Cutaneous route	Not relevant	Not relevant	Not relevant	125 mg/kg bw/d

PNEC

Acetone (CAS 67-64-1)			
Environmental protection objective	**PNEC**	**Environmental protection objective**	**PNEC**
Fresh water	10.6 mg/l	Intermittent releases	21 mg/l
Freshwater sediment	30.4 mg/kg dw	Microrganisms in sewage treatment plant	100 mg/l
Marine water	1.06 mg/l	Soil (agriculture)	29.5 mg/kg dw
Marine sediments	3.04 mg/kg dw	Air	Not relevant

Xylene isomers (CAS 1330-20-7)			
Environmental protection objective	**PNEC**	**Environmental protection objective**	**PNEC**

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Fresh water	0.327 mg/l	Intermittent releases	0.327 mg/l
Freshwater sediment	12.46 mg/kg dw	Microrganisms in sewage treatment plant	6.58 mg/l
Marine water	0.327 mg/l	Soil (agriculture)	2.31 mg/kg dw
Marine sediments	12.46 mg/kg dw	Air	Not relevant

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection: Wear eye protection with side protection (EN166).

Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).

Respiratory protection: Normally no personal respiratory protection is necessary.
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: None known.

8.2.3. Environmental Exposure Controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Red
Odour	Solvent.
Odour threshold	Not known.
pH	Not known.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	Not applicable.
Flash Point	7ºC
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Explosive limits: Upper: 13% Lower: 1.2%
Vapour pressure	4.5 Bar @ 20ºC
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	1.13 g/cm^3 @ 20ºC
Solubility(ies)	Solubility (Water) : Insoluble. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

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10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Keep away from heat and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 40000.00000
Acetone (CAS 67-64-1)	LD50 (oral, rat): 5 800 mg/kg bw
Acute toxicity - Skin Contact	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 12222.22000
Xylene (CAS 1330-20-7)	LD50 (dermal, rabbit): 12 126 mg/kg bw
Acute toxicity - Inhalation	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 12.50000
Acetone (CAS 67-64-1)	LC50 (inhalation, rat): 76 mg/l air
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Calculation method : Not classified.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause drowsiness or dizziness.
STOT - repeated exposure	Calculation method : Not classified.
Xylene (CAS 1330-20-7)	LOAEL (oral, rat, 90 days): 150 mg/kg bw
Aspiration hazard	Calculation method : Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Acetone (CAS 67-64-1)	NOEC (Daphnia magna, 21d); ≥79 mg/l
Xylene (CAS 1330-20-7)	EC50 (Ceriodaphnia dúbia, 48h): >3.4 mg/l
Xylene (CAS 1330-20-7)	LOEC (Daphnia magna, 21d): 3.16 mg/l
Toxicity - Fish	Low toxicity to fish.
Xylene (CAS 1330-20-7)	NOEC (Oncorhynchus mykiss, 56d): >1.3 mg/l
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No.	1950

14.2 UN proper shipping name

UN proper shipping name	AEROSOLS

14.3 Transport hazard class(es)

ADR/RID	
ADR/RID Class	2
ADR Classification Code	5F
Special Provisions	190, 327, 344, 625
Limited Quantities	1 L
Excepted Quantities	E0
Emergency Action Code	
Mixed Packing Instructions for Packages	P207 LP200
Special Packing Provisions for Packages	PP87 RR6 L2
Mixed Packing Instructions for Packages	MP9
Packing Instructions for Portable Tanks	
Special Provisions for Portable Tanks	
Tank Code for Tanks	
Special Provisions for Tanks	
Vehicle for Tank Carriage	
ADR Transport Category	2
Tunnel Restriction Code	D
Special Provisions for Carriage - Packages	V14
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	CV9 CV12
Special Provisions for Carriage - Operation	S2
ADR HIN	
IMDG	
IMDG Class	2
Special Provisions	190, 327, 344, 625
Limited Quantities	1 L
Excepted Quantities	E0
Mixed Packing Instructions for Packages	P207 LP200
Special Packing Provisions for Packages	PP87 RR6 L2
Packing Instructions for Portable Tanks	
Special Provisions for Portable Tanks	
IMDG EMS	F-D, S-U
Stowage and Handling	SW1 SW22
Segregation	SG69
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name	AEROSOLS
Excepted Quantities	E0
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y203
Passenger and Cargo Aircraft Limited Quantities Max net Qty	30Kg
Passenger and Cargo Aircraft Packing Instructions	203
Passenger and Cargo Aircraft Max net	75Kg

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Qty	
Cargo Aircraft Packing Instructions	203
Cargo Aircraft Max net Qty	150Kg
Special Provisions	A145, A167, A802
Emergency Response Guidebook (ERG) Code	10L
Labels	
Labels	2.1

14.4 Packing group

Packing group	Not applicable.

14.5 Environmental hazards

Environmental hazards	Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user	Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

SECTION 15: REGULATORY INFORMATION

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

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances of Very High Concern for Authorisation	Not listed
UK REACH Authorisation List (Annex XIV) list of substances subject to authorisation	Not listed
UK REACH Restrictions List (Annex XVII) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
UK REACH Rolling Action Plan (RAP)	Not listed
The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended	Not listed
The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583)	Not listed
The Prior Informed Consent (PIC) Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended	Not listed

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP)	titanium dioxide (13463-67-7), xylene (1330-20-7)

15.2 Chemical Safety Assessment

United Kingdom	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)

GHS02

GHS07

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Hazard classification	Flam. Gas 1A : Flammable gas Category 1A Aerosol 1 : Aerosol, Category 1 Flam. Liq. 2 : Flammable liquid, Category 2 Flam. Liq. 3 : Flammable liquid, Category 3 Acute Tox. 4 : Acute toxicity, Category 4 Acute Tox. 4 : Acute toxicity, Category 4 Skin Irrit. 2 : Skin corrosion/irritation, Category 2 Eye Irrit. 2 : Serious eye damage/irritation, Category 2 Acute Tox. 4 : Acute toxicity, Category 4 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
Hazard Statement(s)	H220: Extremely flammable gas. H222: Extremely flammable aerosol. H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H229: Pressurised container: May burst if heated. H302: Harmful if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled. H336: May cause drowsiness or dizziness. EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Precautionary Statement(s)	P102: Keep out of reach of children. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTRE/doctor if you feel unwell. P321: Specific treatment (see Medical Advice on this label). P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. P501: Dispose of contents in accordance with local, state or national legislation.
Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Intermediate Bulk Container

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ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS	GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567
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