



Guangzhoushi Yuanmeng Trading Co, Ltd.

According to OSHA 29 CFR 1910.1200 HCS

Material Safety Data Sheet

(MSDS)

Product Name:	Compound colorant suits
Model No.:	41-L

Written by: Anna Chen
(Anna Chen)

Inspected by Mark Luo
(Mark Luo)



ISSUED BY: TUV-Laboratory (China) Service of Testing Co., Ltd.

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Item No.:	21A415YFA
MSDS No.:	EMS.220.720.003.YFA
Initial Date:	May 20, 2023
Revision Date:	May 20, 2023 ¹



Query service

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MSDS No.: EMS.220.720.003.YFA

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Version: 1.0

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Item No.: 21A415ALPR

Section 1

Product and Company Identification

Product identification

Product Name:	Compound colorant suits
Model No.:	41-L
CAS No. :	Not applicable
EC No. :	Not applicable
Molecular Formula:	Not applicable

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

Identified uses:	Colorant
Use advised against:	No special instructions

Details of the applicant, supplier

Company name:	Guangzhoushi Yuanmeng Trading Co., Ltd.
Address:	Room 415, Guaner Yongtai Building, No. 810, Congyun Road, Baiyun District, Guangzhou
Post code:	/
Telephone:	+86-13710904642
Fax:	/
E-mail:	3588797845@qq.com

Emergency telephone number

Emergency telephone:	+86-18795589008
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Section 2

Hazard Description

Hazard class and label elements of the product according to OSHA 29 CFR 1910.1200 HCS:

GHS Hazard class

	Non-hazardous substance or mixture.
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GHS label elements

Pictogram(s): None

Signal word: None

Hazard statements

Not applicable.

Other Hazards

None.

Hazard description

Physical and chemical hazards

No combustion, no special combustion and explosion characteristics.

Health hazards

None.

Environmental hazards

Please refer to Section 12 of MSDS.

Section 3

Composition/Ingredient Data

☐ Material☒ Mixture

Ingredients	Content (%)	CAS No.
Sorbitol	20.00-50.00	50-70-4
Water	4.86-43.98	7732-18-5
Glycerol	1.88-50.00	56-81-5
Carboxymethylcellulose sodium	0.10	9004-32-4
Potassium sorbate	0.04-0.10	590-00-1

The toner components of each color are as follows

No.	Color	Ingredients	Content (%)	CAS No.
1	Red	Red 40	3.33	25956-17-6
		Red 3	0.67	16423-68-0

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No.	Color	Ingredients	Content (%)	CAS No.
2	Grape purple	Red 3	3.1	16423-68-0
		Blue 1	0.90	3844-45-9
3	Lemon yellow	Yellow 5	3.99	1934-21-0
		Yellow 6	0.01	2783-94-0
4	Sky blue	Blue 1	3.99	3844-45-9
		Yellow 6	0.01	2783-94-0
5	Green	Blue 1	2.00	3844-45-9
		Yellow 5	2.00	1934-21-0
6	Violet	Red 3	3.6	16423-68-0
		Blue 1	0.40	3844-45-9
7	Pink	Red 3	3.99	16423-68-0
		Red 40	0.01	25956-17-6
8	Brown	Yellow 6	1.90	2783-94-0
		Red 40	1.90	25956-17-6
		Blue 1	0.00	3844-45-9
9	Black	Red 40	2.00	25956-17-6
		Yellow 6	1.00	2783-94-0
		Blue 1	1.00	3844-45-9
10	Sunset yellow	Yellow 6	3.99	2783-94-0
		Yellow 5	0.01	1934-21-0
11	Navy blue	Blue 1	2.66	3844-45-9
		Red 40	0.67	25956-17-6
		Red 3	0.67	16423-68-0
12	Grass green	Yellow 5	3.34	1934-21-0
		Blue 1	0.66	3844-45-9
13	Dark green	Blue 1	2.66	3844-45-9
		Yellow 5	1.34	1934-21-0

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No.	Color	Ingredients	Content (%)	CAS No.
14	Teal	Blue 1	3.56	3844-45-9
		Yellow 5	0.44	1934-21-0
15	Cherry red	Red 3	2.67	16423-68-0
		Yellow 6	1.33	2783-94-0
16	Blackish green	Yellow 5	2.00	1934-21-0
		Blue 1	1.00	3844-45-9
		Red 40	1.00	25956-17-6
17	Purplish red	Red 3	3.75	16423-68-0
		Blue 1	0.25	3844-45-9
18	Sapphire blue	Blue 1	2.86	3844-45-9
		Red 40	0.94	25956-17-6
		Red 3	0.20	16423-68-0
19	Peacock blue	Blue 1	2.80	3844-45-9
		Yellow 6	1.20	2783-94-0
20	Coconut brown	Red 40	2.79	25956-17-6
		Yellow 5	0.74	1934-21-0
		Blue 1	0.47	3844-45-9
21	Coral red	Red 40	1.95	25956-17-6
		Red 3	1.95	16423-68-0
		Blue 1	0.10	3844-45-9
22	White	Titanium dioxide	15.00	13463-67-7
		Maltose Syrup	5.00	69-79-4
		Propylene glycol	5.00	57-55-6
23	Christmas red	Red 40	3.52	25956-17-6
		Red 3	0.32	16423-68-0
		Yellow 6	0.16	2783-94-0

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No.	Color	Ingredients	Content (%)	CAS No.
24	Christmas green	Blue 1	2.27	3844-45-9
		Yellow 6	0.92	2783-94-0
		Yellow 5	0.81	1934-21-0
25	Turquoise	Blue 1	2.00	3844-45-9
		Red 40	2.00	25956-17-6
26	Dark red	Red 40	3.16	25956-17-6
		Red 3	0.80	16423-68-0
		Blue 1	0.04	3844-45-9
27	Sunset red	Red 40	3.33	25956-17-6
		Yellow 6	0.67	2783-94-0
28	Orange red	Yellow 6	2.67	2783-94-0
		Red 40	1.33	25956-17-6
29	Orange	Yellow 5	2.40	1934-21-0
		Yellow 6	1.60	2783-94-0
30	Brick red	Red 40	2.00	25956-17-6
		Red 3	1.60	16423-68-0
		Yellow 5	0.40	1934-21-0
31	Yellow green	Yellow 5	3.64	1934-21-0
		Blue 1	0.36	3844-45-9
32	Rose	Red 3	3.04	16423-68-0
		Red 40	0.76	25956-17-6
		Blue 1	0.20	3844-45-9
33	Coffee	Red 40	1.80	25956-17-6
		Yellow 6	1.80	2783-94-0
		Blue 1	0.40	3844-45-9
34	Dark blue	Blue 1	3.27	3844-45-9
		Yellow 6	0.73	2783-94-0

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No.	Color	Ingredients	Content (%)	CAS No.
35	Cherry pink	Red 3	2.70	16423-68-0
		Red 40	1.21	25956-17-6
		Blue 1	0.09	3844-45-9
36	Geranium pink	Red 40	3.29	25956-17-6
		Yellow 6	0.69	2783-94-0
		Blue 1	0.02	3844-45-9
37	Grapefruit red	Red 3	3.33	16423-68-0
		Yellow 5	0.67	1934-21-0
38	Blood orange	Yellow 5	3.33	1934-21-0
		Red 40	0.66	25956-17-6
		Blue 1	0.01	3844-45-9
39	Carmine	Red 40	2.10	25956-17-6
		Red 3	1.90	16423-68-0
40	Green brown	Yellow 5	2.30	1934-21-0
		Red 40	1.14	25956-17-6
		Blue 1	0.56	3844-45-9
41	Matcha Green	Yellow 6	1.70	2783-94-0
		Yellow 5	1.50	1934-21-0
		Blue 1	0.80	3844-45-9

Section 4 First Aid Measures

Description of first aid measures

General advice:	Show this material safety data sheet to the doctor in attendance. After receiving the first-aid measure required, consult a physician if necessary.
Skin contact:	Remove contaminated clothing and shoes. Wash off with mild soap and plenty of water. If skin irritation occurs or persists, consult a physician immediately.

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Eyes contact:	<p>Check for and remove any contact lenses, occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far.</p> <p>Provide a readily-accessible eyewash facility and quick-drench safety shower.</p> <p>Do not rub eyes with hands.</p>
Inhalation:	<p>Move exposed person to fresh air. Maintain an open airway. Keep person warm and at rest.</p> <p>If breathing is irregular, provide artificial respiration or oxygen by trained personnel.</p> <p>Get medical attention if adverse health effects persist or are severe.</p>
Ingestion:	<p>If you eat too much, wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest.</p> <p>If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.</p> <p>Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.</p> <p>If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.</p> <p>Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.</p>

Most important acute and delayed symptoms/effects

- | | |
|---|--|
| 1 | The most important known symptoms and effects are described in section 2 and/or in section 11. |
|---|--|

Immediate/special treatment

- | | |
|---|---|
| 1 | Continue with first aid measures. Treat symptomatically and supportively. |
| 2 | Symptoms may be delayed. |

Section 5 Firefighting Measures

Extinguishing agent

Suitable extinguishing agents:	<p>Use dry sand, dry chemical or CO₂ foam extinguishing.</p> <p>Water spray can be used to cool fire exposed containers/materials.</p> <p>Use extinguishing media most appropriate for the surrounding fire.</p>
Unsuitable extinguishing agents:	<p>Do not uses a solid water stream as it may scatter or spread fire.</p>

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Special hazards arising from the substance or mixture

- | | |
|---|--|
| 1 | If this product is involved in a fire, the following can be released: Carbon oxides and other toxic fumes. |
|---|--|

Fire precautions and measures

- | | |
|---|--|
| 1 | Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind. |
| 2 | As far as possible will be transferred to empty containers from the scene. |
| 3 | Keep the fire water spray containers cooling, until the end of fire. |
| 4 | If the containers in the fire ground have been color, must be evacuated immediately. |
| 5 | Isolated accident scene, prohibit access. |
| 6 | Receiving and processing of fire, to prevent environmental pollution. |

Section 6

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- | | |
|---|---|
| 1 | No action shall be taken involving any personal risk or without suitable training. |
| 2 | Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. |
| 3 | Do not touch or walk through spilt material, avoid slipping. |
| 4 | Avoid breathing steam. |
| 5 | Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. |
| 6 | Put on appropriate personal protective equipment (see section 8). |

Environmental precautions

- | | |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

Methods and materials for containment and cleaning up

- | | |
|---|--|
| 1 | Small spill: Stop leak if without risk. Move containers from spill area. Wash the leakage with plenty of water.
Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth. |
|---|--|

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2	Contaminated absorbent material may pose the same hazard as the spilt product.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Section 7 Handling and Storage

Precautions for safe handling

1	Put on appropriate personal protective equipment (see section 8).
2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
3	Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes. Avoid breathing steam.
4	Provide suitable exhaust equipment. Operate in a well-ventilated place.
5	Normal measures for preventive fire protection. Keep away from heat/open flames/hot surfaces.
6	Observe good housekeeping procedures and hygiene practices.
7	Handling carefully to prevent damage the packaging and container.
8	Wash thoroughly after handling.
9	Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
10	Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.

Precautions for storage

1	Store in accordance with local regulations. Stored in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use.
2	Avoid direct sunlight. Keep away from open flames and high temperatures, away from incompatible materials (see section 10).
3	Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.
4	Keep out of reach of children and pets.

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Section 8

Exposure Controls/Personal Protection

Control parameters






Occupational Exposure limit values

Components CAS No.	Country/region	Occupational exposure limits (8h)		Occupational exposure limits (Short time)	
		ppm	mg/m ³	ppm	mg/m ³
Glycerol 56-81-5	USA-OSHA	-	15	-	-
	Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
Titanium dioxide 13463-67-7	USA-OSHA	-	15	-	-
	Korea	-	10	-	-
	Ireland	-	10	-	-
	France	-	11	-	-
	Denmark	-	6	-	12
	Australia	-	10	-	-

Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

General requirements:	    
Respiratory protection:	If exposure limits are exceeded or if irritation or other symptoms are experienced, use multi-function respirator.
Eye protection:	Wear safety glasses when there is a potential for eye contact.

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Skin and body protection:	Wear suitable protective clothing and boots.
Hands protection:	Wear protective gloves. Check protective gloves prior to each use for their proper condition. 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.

Section 9

Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance and character:	Red, Grape purple, Lemon yellow, Sky blue, Green, Violet, Pink, Brown, Black, Sunset yellow, Navy blue, Grass green, Dark green, Teal, Cherry red, Blackish green, Purplish red, Sapphire blue, Peacock blue, Coconut brown, Coral red, White, Christmas red, Christmas green, Turquoise, Dark red, Sunset red, Orange red, Orange, Brick red, Yellow green, Rose, Coffee, Dark blue, Cherry pink, Geranium pink, Grapefruit red, Blood orange, Carmine, Green brown, Matcha Green; Liquid
Odor:	Mild
Odor threshold:	No data/Not applicable
Melting point/freezing point (°C):	No data/Not applicable
Initial boiling point and boiling range (°C):	No data/Not applicable
Flash point (°C):	>93
Evaporation rate:	No data/Not applicable
Steam pressure (20°C):	No data/Not applicable
Relative density (water=1):	No data/Not applicable
Partition coefficient: n-octanol/water:	No data/Not applicable
Decomposition temperature (°C):	No data/Not applicable
Auto ignition temperature (°C):	No data/Not applicable

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pH value:	No data/Not applicable
Explosion limit [% (v/v)]:	Non explosives
Relative vapor density(air=1):	No data/Not applicable
Solubility:	Soluble in water
Flammability (solid, gas):	No data/Not applicable
Oxidizing properties:	The substance does not belong to oxidizing substances

Section 10 Stability and Reactivity

Stability and Reactivity

Stability:	The product is chemically stable.
Reactivity:	Stable under recommended storage and handling conditions.
Incompatible materials:	Strong oxidizing agents, strong acids and strong bases.
Conditions to avoid:	In contrast to the nature of the material, direct sunlight, high temperature and open fire
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Acute toxicity

Component(s)	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
Sorbitol	50-70-4	Rat: 15900mg/kg Mouse: 17800mg/kg	No data	No data
Glycerol	56-81-5	Rat: 12600mg/kg Mouse: 4090mg/kg Rabbit: 27000mg/kg	Rabbit: >10000mg/kg	Rat: >570mg/m ³ /1H
Carboxymethylcellulose sodium	9004-32-4	Rat: 27000mg/kg Mouse: >27000mg/kg	No data	No data
Yellow 5	1934-21-0	Mouse: 12750mg/kg	No data	No data

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Component(s)	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
Yellow 6	2783-94-0	Rat: >10000mg/kg Mouse: >6000mg/kg	No data	No data
Propylene Glycol	57-55-6	Rat: 20000mg/kg Mouse: 22000mg/kg Rabbit: 18500mg/kg	Rabbit: 20800mg/kg	No data
Red 3	16423-68-0	Rat: 1840mg/kg Mouse: 1264mg/kg	No data	No data

Skin corrosion/irritation

Component(s)	CAS No.	Species	Route	Value	Result	Type of test
Glycerol	56-81-5	Rabbit	Skin	500mg/24H	Mild	Standard Draize test

Eye corrosion/irritation

Component(s)	CAS No.	Species	Route	Value	Result	Type of test
Glycerol	56-81-5	Rabbit	Skin	500mg/24H	Mild	Standard Draize test
Propylene glycol	57-55-6	Rabbit	Eye	500mg/24H	Mild	Standard Draize test

Respiratory sensitization:	These products are not known to cause human respiratory sensitization.
Skin sensitization:	These products are not known to cause skin sensitization.
Germ cell mutagenicity:	According to the existing data, the product is not classified.
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity:	According to the existing data, the product is not classified.
Specific target organ toxicity - single exposure:	According to the existing data, the product is not classified.
Specific target organ toxicity - repeated exposure:	According to the existing data, the product is not classified.
Aspiration hazard:	According to the existing data, the product is not classified.
Additional reproductive toxicity hazards:	According to the existing data, the product is not classified.

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Section 12 Ecological Information

Aquatic toxicity

Acute/Chronic aquatic toxicity:	This product contains no hazardous or toxic substances, and presents a negligible impact on the environment based on its reported use pattern.
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Persistence and degradability

Persistence:	No data.
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Bioaccumulative potential

Bioaccumulation:	The potential for bioaccumulation of this material in aquatic organisms is low.
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Mobility in soil

Mobility:	No data.
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Other adverse effects

1	Under environmental conditions, is not expected to have a detrimental effect on plants, animals or microorganisms. But do not allow material to be released to the environment without proper governmental permits.
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Section 13 Disposal Considerations

Waste disposal

Residual waste:	Before disposal should refer to the relevant national and local laws and regulation. The generation of waste should be avoided or minimized wherever possible. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system or transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible.
Contaminated packaging:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations:	Dispose of container and unused contents in accordance with national and local relevant regulations laws.

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Section 14 Transport Information

Transport rules

According to IATA DGR 63rd Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 40-20), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID.

Label(s) required

Label(s): None

Road transport (UN-ADR)

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es)-Main: Not regulated

Transport hazard class(es)-Sub risk: None

Packaging group: Not regulated

Special provisions: None

Hazard code: None

Air transport (ICAO-IATA/DGR)

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es)-Main: Not regulated

Transport hazard class(es)-Sub risk: None

Packaging group: Not regulated

Special provisions for transportation: None

ERG code: None

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Sea transport (IMDG-CODE)

UN number:	Not regulated
UN proper shipping name:	Not regulated
Transport hazard class(es)-Main:	Not regulated
Transport hazard class(es)-Sub risk:	None
Packaging group:	Not regulated
Special provisions for transportation:	None
Marine pollutants (Yes/No):	No
EmS No.:	None

Section 15 Regulatory Information

U.S. Federal regulations

1	TSCA (Toxic Substances Control Act): All ingredients in this product are either listed, or exempt from listing, on the TSCA Inventory
2	CERCLA (Comprehensive Response Compensation, and Liability Act): Not determined
3	SARA Title III (Superfund Amendments and Reauthorization Act): None
4	SARA 313 Reportable Ingredients: None.

Section 16 Other Information

Abbreviations or phrases

ACGIH:	American Conference of Governmental Industrial Hygienists
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service

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CLP:	Classification, labeling and packaging
EC:	Council of Europe
ECHA:	European Chemicals Agency
EINECS:	European Inventory of Existing commercial Chemical Substances
GHS:	Globally Harmonized System of Classification and Lablling of Chemicals
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
RID:	Regulation for rail International transportation of Dangerous goods
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods Code
IC50:	Inhibitory Concern Triton 50%
LC50:	Lethal Concentration 50%
LD50:	Median Lethal Dose 50%
MAPROL:	International Convention for the Prevention of Pollution from Ships
REACH:	REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average
MAC:	Maximum Allowable Concentration
OSHA:	Occupational Safety and Health Administration
NIOSH:	National Institute for Occupational Safety and Health
TLV:	Threshold Limit Value
TLV-TWA:	Threshold Limit Value-Time Weighted Average
TLV- STEL:	Threshold Limit Value-Short term Exposure Limit
PC-TWA:	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
PEL:	Permissible Exposure Limit
OELs:	Occupational Exposure Limits

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Reference

1	IARC
2	OECD: The Global Portal to Information on Chemical Substances
3	U.S. Department of Transportation: ERG
4	Germany GESTIS-database on hazard substance
5	CAMEO Chemicals
6	NLM: ChemIDplus
7	EPA: Integrated Risk Information System
8	IPCS: The International Chemical Safety Cards (ICSC)

Disclaimer

1	The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
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