

Safety Data Sheet

According to Feder Register | Vol. 77, No. 58 | Monday, March 26, 2012 | Rules & Regulations Compilation Date: 3/22/2021

Version: 1.0

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Trade Name Bubble Gum Fragrance Oil

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses General use

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

IndiMade Brands, LLC DBA The Flaming Candle 71 Southern Court Hiram, GA 30141 (770) 505-4999 www.TheFlamingCandle.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency information service 800-255-3924 | Domestic USA, Canada, Puerto Rico, US Virgin Islands

+1-813-248-0585 | International

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard Class	Category	Hazard Class and Category	Hazard Statement
A.4S	Skin sensitization	1	Skin Sens. 1	H317
B.6	Flammable Liquid	3	Flam. Liq. 3	H226

2.2 LABEL ELEMENTS

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word Warning
Pictograms GHS07



Hazard statements

H227 Combustible liquid.

H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to industrial combustion plant.

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2.3 OTHER HAZARDS

This material is combustible, but will not ignite readily.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not relevant (mixture)

3.2 MIXTURES

Description of the mixture

IUPAC Name	CAS No	Wt%	Classification acc. to GHS
(2E,6E)-2,6-dimethyl-10-methylidenedodeca-2,6,11-trienal; (2E,6E,9E)-2,6,10-trimethyldodeca-2,6,9,11-tetraenal; (4R)-1-methyl-4-(prop-1-en-2-yl)cyclohex-1-ene; 3,7-dimethylocta-1,6-dien-3-ol; 7-methyl-3-methylideneocta-1,6-diene; octanal	8008-57-9 8028-48-6	5 - < 10	Flam. Liq. 3 / H226
	628-63-7	1 - < 5	Flam. Liq. 3 / H226
3-methylbutyl butanoate	106-27-4	1 - < 5	Flam. Liq. 3 / H226
ethyl butanoate	105-54-4	1 - < 5	Flam. Liq. 3 / H226
prop-2-en-1-yl hexanoate	123-68-2	< 1	Acute Tox. 3 / H311 Flam. Liq. 4 / H227
(2E)-3,7-dimethylocta-2,6-dienal	5392-40-5	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317

For full text of abbreviations: see SECTION 16.

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

General notes Do not leave affected person unattended. Remove victim out of the danger area. Keep

affected person warm, still and covered. Take off immediately all contaminated clothing. In

all cases of doubt, or when symptoms persist, seek medical advice. In case of

unconsciousness place person in the recovery position. Never give anything by mouth. If breathing is irregular or stopped, immediately seek medical assistance and start first aid

actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact Wash with plenty of soap and water.

Following eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with

clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms and effects are not known to date.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None.

Following inhalation

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media Water jet

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

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In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g., unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Carbon monoxide (CO), Carbon dioxide (CO2) Hazardous combustion products

5.3 ADVICE FOR FIREFIGHTERS

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel Remove persons to safety.

For emergency responders Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Advice on how to contain a spill Covering of drains.

Advice on how to clean up a spill Wipe up with absorbent material (e.g., cloth, fleece). Collect spillage: sawdust, kieselgur

(diatomite), sand, universal binder.

Appropriate containment techniques Use of adsorbent materials.

Other information relating to spills and releases Place in appropriate containers for disposal. Ventilate affected area.

6.4 REFERENCE TO OTHER SECTIONS

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations

Measures to prevent fire as well as aerosol Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of and dust generation

ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Specific notes/details Places which are not ventilated, e.g., unventilated below ground level areas such as

trenches, conduits and shafts, are particularly prone to the presence of flammable

substances or mixtures. Vapors are heavier than air, spread along floors and form explosive

mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated

> clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for

food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Managing of associated risks

Keep container tightly closed and in a well-ventilated place. Use local and general Explosive atmospheres

ventilation. Keep cool. Protect from sunlight.

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Flammability hazards Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking. Take precautionary measures

against static discharge. Protect from sunlight.

Ventilation requirements Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities Only packagings which are approved (e.g., acc. to the Dangerous Goods Regulations) may be

used.

7.3 SPECIFIC END USE(S)

See section 16 for a general overview.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Occupational exposure limit values (Workplace Exposure Limits)

Coun -try	Name of Substance	CAS No	ldenti- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota -tion	Source
US	(2E)-3,7- dimethylocta- 2,6-dienal	5392-40-5	TLV®	5						iv	ACGIH® 2019
US	AMYL ACETATE	628-63-7	PEL (CA)	50	266	100	532				Cal/OSHA PEL
US	AMYL ACETATE	628-63-7	REL	100 (10 h)	525 (10 h)						NIOSH REL
US	AMYL ACETATE	628-63-7	PEL	100	525						29 CFR 1910.1000
US	AMYL ACETATE	628-63-7	TLV®	50		100					ACGIH® 2019

8.2 EXPOSURE CONTROLS

Appropriate engineering controls

Eye/face protection

Skin protection

Hand protection

General ventilation.

Wear eye/face protection.

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to

EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned

above together with the supplier of these gloves.

Other protection measures Take recovery periods for skin regeneration. Preventive skin protection (barrier

creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

surface and ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid

Color Very pale yellow
Odor Comparable to standard

Other safety parameters

pH (value)

Melting point/freezing point

Not determined

Not determined

Not determined

249.8 °F at 972.4 hPa

Flash point 160 °F

Evaporation rate Not determined
Flammability (solid, gas) Not relevant (fluid)
Vapor pressure 1,750 Pa at 20 °C
Density 0.9755 g/ml at 25 °C

Vapor density This information is not available

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Solubility(ies) Not determined

Partition coefficient

n-octanol/water (log KOW) This information is not available

Auto-ignition temperature 455 °F

Viscosity Not determined

Explosive properties None Oxidizing properties None

9.2 OTHER INFORMATION

 Liquid content
 94.48 %

 Solid content
 5.521 %

Temperature class (USA, acc. to NEC 500)

T2C (maximum permissible surface temperature on the equipment: 230 °C)

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated: Risk of ignition

10.2 CHEMICAL STABILITY

See below "Conditions to avoid".

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No known hazardous reactions.

10.4 CONDITIONS TO AVOID

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

10.5 INCOMPATIBLE MATERIALS

Oxidizers

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion product: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Skin corrosion/irritation Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Shall not be classified as germ cell mutagenic.

Carcinogenicity Shall not be classified as carcinogenic.

Reproductive toxicity Shall not be classified as a reproductive toxicant.

Specific target organ toxicity – single exposure Specific target organ toxicity – repeated Shall not be classified as a specific target organ toxicant (single exposure).

Shall not be classified as a specific target organ toxicant (repeated exposure).

exposure

Aspiration hazard Shall not be classified as presenting an aspiration hazard.

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Other information Repeated exposure may cause skin dryness or cracking.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Very toxic to aquatic life with long lasting effects.

12.2 PERSISTENCE AND DEGRADABILITY

Data is not available.

12.3 BIOACCUMULATIVE POTENTIAL

Data is not available.

12.4 MOBILITY IN SOIL

Data is not available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

Data is not available.

12.6 ENDOCRINE DISRUPTING PROPERTIES

Information on this property is not available.

12.7 OTHER ADVERSE EFFECTS

Data is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste treatment-relevant information Solvent reclamation/regeneration.

Sewage disposal-relevant information Do not empty into drains. Avoid release to the environment. Refer to special

instructions/safety data sheets.

Waste treatment of containers/packages Only packagings which is approved (e.g., acc. to DOT) may be used. Completely emptied

packages can be recycled. Handle contaminated packages in the same way as the substance

itself.

Remarks Please consider the relevant national or regional provisions. Waste shall be separated into

categories that can be handled separately by the local or national waste management

facilities.

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER

DOT UN 3082 IMDG-Code UN 3082 ICAO-TI UN 3082

14.2 UN PROPER SHIPPING NAME

DOT Environmentally hazardous substance, liquid, n.o.s.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

ICAO-TI Environmentally hazardous substance, liquid, n.o.s.

Technical name (hazardous ingredients) EXALTOLIDE TOTAL, AMYL BUTYRATE

14.3 TRANSPORT HAZARD CLASS(ES)

DOT

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IMDG-Code 9 ICAO-TI 9

14.4 PACKING GROUP

DOT III
IMDG-Code III
ICAO-TI III

14.5 ENVIRONMENTAL HAZARDS

Environmentally hazardous substance

EXALTOLIDE TOTAL, AMYL BUTYRATE

(aquatic)

14.6 SPECIAL PRECAUTIONS FOR USER

There is no additional information

14.7 TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

The cargo is not intended to be carried in bulk.

14.7.1 TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL (49 CFR US DOT) - ADDITIONAL INFORMATION

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: EXALTOLIDE

TOTAL, AMYL BUTYRATE), 9, III

Danger label(s) 9, fish and tree

Daniger label(s)

Environmental hazards Yes (hazardous to the aquatic environment) Special provisions (SP) 8, 146, 173, 335, IB3, T4, TP1, TP29

ERG No 171

14.7.2 INTERNATIONAL MARITIME DANGEROUS GOOD CODE (IMDG) - ADDITIONAL INFORMATION

Marine pollutant yes (hazardous to the aquatic environment) (DIOCTYL ADIPATE)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-A, S-F
Stowage category A

14.7.3 INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO-IATA/DGR) - ADDITIONAL INFORMATION

Environmental hazards Yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A197

Excepted quantities (EQ) E1
Limited quantities (LQ) 30 kg

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SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

15.1.1 NATIONAL REGULATIONS (UNITED STATES)

Superfund Amendment and Reauthorization: None of the ingredients are listed

Act (SARA TITLE III)

Compensation, and Liability Act (CERCLA): Amyl Acetate, CAS no. 628-63-7 Clean Air Act: None of the ingredients are listed

Right to Know Hazardous Substance List

Cleaning Product Right to Know Act: (2E)-3,7-dimethylocta-2,6-dienal, CAS no. 5392-40-5

Substance List (CA-RTK)

Toxic or Hazardous Substance List (MA-: Amyl Acetate, CAS no. 123-92-2 TURA)

Hazardous Substances List (MN-ERTK): Amyl Acetate, CAS no. 626-38-0 Amyl Acetate, CAS no. 628-63-7 Hazardous Substance List (NJ-RTK): Amyl Acetate, CAS no. 628-63-7

Ethyl Butanoate, CAS no. 105-54-4

Hazardous Substance List (Chapter 323): Acetic Acid (Pentyl Ester), CAS no. 628-63-7 (PA-RTK) Butanoic Acid (Ethyl Ester), CAS no. 105-54-4

Hazardous Substance List (RI-RTK) Amyl Acetate, CAS no. 628-63-7
California Environmental Protection Agency: None of the ingredients are listed

(Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

15.1.2 INDUSTRY OR SECTOR SPECIFIC AVAILABLE GUIDANCE(S)

NPCA-HMIS ® III (Hazardous Materials Identification System. American Coatings Association.)

Category	Rating	Description
Chronic	/	None
Health	2	Temporary or minor injury may occur
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704 [National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).]

Category	Degree of Hazard	Description
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	Material that is normally stable, even under fire conditions
Special hazard		

15.2 CHEMICAL SAFETY ASSESSMENT

Chemical safety assessments for substance in this mixture were not carried out.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)

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ACGIH® 2019 on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement Acute Tox. Acute toxicity Cal/OSHA PEL California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances Ceiling-C Ceiling value DEP CODE Department of Environmental Protection Code DGR Danagerous Goods Regulations (see IATA/DGR) DOT Department of Transportation (USA) EmS Emergency Schedule ERG No Emergency Response Guidebook - Number Flam. Liq. Flammable liquid GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations HHS Higher hazard substance IATA International Air Transport Association IATA/DGR Danagerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization ICAO-TI Technical instructions for the safe transport of danagerous goods by air IMDG International Maritime Dangerous Goods Code IMDG-Code International Maritime Dangerous Goods Code IMDG-Code International Maritime Dangerous Goods Code IMPAC International Union of Pure and Applied Chemistry LHS Lower hazard substance MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NIOSH REL National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELS)	Abbr.	Descriptions of used abbreviations
From ACGIH® 2019 and BEIS® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLV® and BEIS® http://www.acgin.org/th-bei-guidelines/policies-procedures-presentations/th-bei-puidelines/policies-procedures-presentations/thep-puidelines/policies-procedures-presentations/thep-puidelines/policies-procedures-presentations/thep-puidelines/policies-procedures-presentations-presentations/thep-puidelines/policies-procedures-presentations-presentations/thep-puidelines/policies-procedures-presentations-presentatio	49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIHI® 2019 on the proper use of the TLVs® and BEIs®: http://www.acgih.org/thv-bei-guidelines/policies/procedures-presentations/thv-bei-position/statement Acute Tox. Acute toxicity Cal/OSHAPEL California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances (celling-C Celling-Qualue Celling-C Celling-Qualue DEP CODE Department of Environmental Protection Code DGR Dangerous Goods Regulations (see IATA/DGR) DOT Department of Insportation (USA) Emergency Schedule ERG No Emergency Response Guidebook - Number Flam. Liq. Flammable liquid GHS Globally Hamonized System of Classification and Labelling of Chemicals" developed by the United Nations HHS Hamber Schedule Sch	ACGIH®	American Conference of Governmental Industrial Hygienists
CalifOSHA PEL California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances Celling-C Celling value DEP CODE Department of Environmental Protection Code DGR Dangerous Goods Regulations (see IATA/DGR) DOT Department of Transportation (USA) EmS Emergency Schedule ERG No Emergency Schedule E	ACGIH® 2019	
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Ceiling-C Ceiling value DEP CODE Department of Environmental Protection Code DGR Dangerous Goods Regulations (See IATA/DGR) DOT Department of Transportation (USA) EmS Emergency Schedule ERG No Emergency Response Guidebook - Number Flam. Liq. Flammable liquid GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations HHS Higher hazard substance IATA International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization ICAO International Maritime Dangerous Goods Code IMDG International Maritime Dangerous Goods Code IMDG-Code International Maritime Dangerous Goods Code IMDG-Code International Union of Pure and Applied Chemistry LHS Lower hazard substance MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NICSH REL National Institute for Occupational Safety and Health (NICSH): Recommended Exposure Limits (RELs) NPC	Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
DEP CODE Department of Environmental Protection Code DGR Dangerous Goods Regulations (see IATA/DGR) DOT Department of Transportation (USA) EmS Emergency Schedule ERG No Emergency Response Guidebook - Number Flam. Liq. GRS Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations HHS Higher hazard substance IATA International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization ICAO-TI Technical instructions for the safe transport of dangerous goods by air IMDG INDG International Maritime Dangerous Goods Code INDGC INDG International Maritime Dangerous Goods Code INDGC International Union of Pure and Applied Chemistry LHS Lower hazard substance MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NIOSH REL National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) NPCA-HMIS® III National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition OSHA Occupational Safety and Health Administration (United States) PET Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit Ppm Parts Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit Ppm Parts Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Skin Corr. Skin Grer. Skin Sens. Skin sensitization Skin Sens. Skin sensitization	CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR Dagerous Goods Regulations (see IATA/DGR) DOT Department of Transportation (USA) EmS Emergency Schedule ERG No Emergency Response Guidebook - Number Flam. Liq. Flammable liquid GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations HHS Higher hazard substance HATA International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization ICAO-TI Technical instructions for the safe transport of dangerous goods by air IMDG International Maritime Dangerous Goods Code IMDG-Code International Maritime Dangerous Goods Code IMDAC International Union of Pure and Applied Chemistry LHS Lower hazard substance MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NIOSH REL National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) NPCA-HMIS® III National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition OSHA Occupational Safety and Health Administration (United States) PBT Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit Ppm Parts per million RTECS Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Corrosive to skin Skin Irrit. Irritant to skin Skin Sens. Skin sensitization STEL Short-term exposure limit TLV® Threshold Limit Values	Ceiling-C	Ceiling value
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NIOSH REL National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) NPCA-HMIS® III National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition OSHA Occupational Safety and Health Administration (United States) PBT Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit ppm Parts per million RTECS Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Corrosive to skin Skin Irrit. Irritant to skin Skin sens. Skin sensitization STEL Short-term exposure limit TLV® Threshold Limit Values	LHS	Lower hazard substance
NPCA-HMIS® III National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition OSHA Occupational Safety and Health Administration (United States) PBT Persistent, Bioaccumulative and Toxic PEL Permissible exposure limit ppm Parts per million RTECS Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Corrosive to skin Skin Irrit. Irritant to skin Skin Sens. Skin sensitization STEL Short-term exposure limit TLV® Threshold Limit Values	MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
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PEL Permissible exposure limit ppm Parts per million RTECS Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Corrosive to skin Skin Irrit. Irritant to skin Skin Sens. Skin sensitization STEL Short-term exposure limit TLV® Threshold Limit Values	OSHA	Occupational Safety and Health Administration (United States)
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RTECS Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) Skin Corr. Corrosive to skin Skin Irrit. Irritant to skin Skin Sens. Skin sensitization STEL Short-term exposure limit TLV® Threshold Limit Values	PEL	Permissible exposure limit
Skin Corr.Corrosive to skinSkin Irrit.Irritant to skinSkin Sens.Skin sensitizationSTELShort-term exposure limitTLV®Threshold Limit Values	ppm	Parts per million
Skin Irrit.Irritant to skinSkin Sens.Skin sensitizationSTELShort-term exposure limitTLV®Threshold Limit Values	RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Sens.Skin sensitizationSTELShort-term exposure limitTLV®Threshold Limit Values	Skin Corr.	Corrosive to skin
STEL Short-term exposure limit TLV® Threshold Limit Values	Skin Irrit.	Irritant to skin
TLV® Threshold Limit Values	Skin Sens.	Skin sensitization
	STEL	Short-term exposure limit
TWA Time-weighted average	TLV®	Threshold Limit Values
	TWA	Time-weighted average
vPvB Very Persistent and very Bioaccumulative	vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Safety Data Sheet

According to Feder Register | Vol. 77, No. 58 | Monday, March 26, 2012 | Rules & Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport

(IATA).

Classification procedure Physical and chemical properties: The classification is based on tested mixture.

 $Health\ hazards,\ Environmental\ hazards:\ The\ method\ for\ classification\ of\ the\ mixture\ is$

based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.