Page 1/14

Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Reviewed on 06/28/2019

1 Identification

- · Product identifier
- · Trade name: 759 GRENATE
- · Article number: 759
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: General Paint Co. S.A.L. P.O. Box 7623 Beirut LEBANON info@generalpaint.biz
- Information department: Product Safety Department
 Emergency telephone number: 1-800-535-5053 contract number (89244)

2 Hazard(s) identification

· Classification of the substance or mixture



- Flam. Liq. 3 H226 Flammable liquid and vapor.
 - GHS08 Health hazard
- Carc. 2 H351 Suspected of causing cancer.
 - GHS07
- Skin Irrit. 2 H315 Causes skin irritation.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- Label elements
 GHS label elements
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Warning

(Contd. on page 2)

US

Page 2/14

(Contd. of page 1)

Reviewed on 06/28/2019

Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Trade name: 759 GRENATE

· Hazard-determining components of labeling: n-butvl acetate · Hazard statements Flammable liquid and vapor. Causes skin irritation. Suspected of causing cancer. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRE 3 Fire = 3Reactivity = 0REACTIVITY 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.

(Contd. on page 3)

Printing date 09/11/2019

Trade name: 759 GRENATE

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:				
	n-butyl acetate	>50- <i>≤</i> 100%		
1330-20-7	•	>10- <i>≤</i> 25%		
64742-95-6	Solvent naphtha (petroleum), light arom.	>2.5- <i>≤</i> 10%		
108-65-6	2-methoxy-1-methylethyl acetate	<i>≤</i> 2.5%		
100-41-4	ethylbenzene	<i>≤</i> 2.5%		

4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Water with full jet

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

Page 3/14

(Contd. of page 2)



Reviewed on 06/28/2019

US

Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

F m dino mmo		(Contd. of page 3
• Methods ar Absorb with Dispose cor Ensure adeo	ntal precautions: Do not allow to enter sewers/ surface or ground water. Ind material for containment and cleaning up: Iiquid-binding material (sand, diatomite, acid binders, universal binders, say Intaminated material as waste according to item 13. quate ventilation.	wdust).
	to other sections	
	 7 for information on safe handling. 8 for information on personal protection equipment. 	
	13 for disposal information.	
	Action Criteria for Chemicals	
· PAC-1:		
123-86-4	n-butyl acetate	5 ppm
1330-20-7	xylene	130 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
	ethylbenzene	33 ppm
111-76-2	2-butoxyethanol	60 ppm
	1-methoxy-2-propanol	100 ppm
70657-70-4	2-methoxypropyl acetate	50 ppm
· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
100-41-4	ethylbenzene	1100* ppm
111-76-2	2-butoxyethanol	120 ppm
107-98-2	1-methoxy-2-propanol	160 ppm
70657-70-4	2-methoxypropyl acetate	1,000 ppm
· PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
100-41-4	ethylbenzene	1800* ppm
	2-butoxyethanol	700 ppm
107-98-2	1-methoxy-2-propanol	660 ppm
70657-70-4	2-methoxypropyl acetate	5,000 ppm

(Contd. on page 5)

Page 4/14



Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

7 Handling and storage

· Handling:

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

123-86	6-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm	
1330-2	20-7 xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI	
	•	(Contd. on page 6)



Page 5/14

(Contd. of page 4)

Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

108-6	(Contd. of page 5 65-6 2-methoxy-1-methylethyl acetate
	L Long-term value: 50 ppm
	41-4 ethylbenzene
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm
	BEI
Ingre	edients with biological limit values:
1330	-20-7 xylene
BEI	1.5 g/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids
	41-4 ethylbenzene
	0.7 g/g creatinine Medium: urine
	Time: end of shift at end of workweek
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
'	
1	Medium: end-exhaled air
	Time: not critical
1	Parameter: Ethyl benzene (semi-quantitative)
· Addi	tional information: The lists that were valid during the creation were used as basis.
· Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
Store	protective clothing separately.
Avoid	contact with the skin.
Avoic	l contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or long
	sure use respiratory protective device that is independent of circulating air.
· Prote	ection of hands:
ſſ	
1117	Protective gloves
	(Contd. on page
	Conto, on pade

Page 6/14



Page 7/14

Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

(Contd. of page 6)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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 can not be calculated in advance and has therefore to be checked prior to the application.

· 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:



Tightly sealed goggles

9 Physical and chemical properties

General Information	
· Appearance:	
Form:	Liquid
Color:	Dark red
Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	120 °C (248 °F)
Flash point:	27 °C (80.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	370 °C (698 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air, vapor mixtures are possible.



Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

	(Contd.	of page
Explosion limits:		
Lower:	1.1 Vol %	
Upper:	7.5 Vol %	
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)	
Density at 20 °C (68 °F):	0.942 g/cm³ (7.86099 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	76.0 %	
Coating VOC content:	76.02 %	
.	716.1 g/l / 5.98 lb/gal	
Material VOC content:	716.1 g/l / 5.98 lb/gal	
Solids content:	24.1 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 9)

US



Page 8/14

Printing date 09/11/2019

SENERAL

Trade name: 759 GRENATE

Reviewed on 06/28/2019

(Contd. of page 8)

Page 9/14

LD/LC50	values tha	at are relevant for classification:	
1330-20-7	' xylene		
Oral	LD50	4,300 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
64742-95-	6 Solvent	naphtha (petroleum), light arom.	
		>6,800 mg/kg (rat)	
		>3,400 mg/kg (rab)	
Inhalative	LC50/4 h	>10.2 mg/l (rat)	
on the ey Sensitizat Additiona	in: Irritant a e: No irrita tion: No se al toxicolog uct shows	ect: to skin and mucous membranes. ating effect. ensitizing effects known. g ical information: the following dangers according to internally approved calculat	ion method
on the eye Sensitizat Additiona The produ preparatio Irritant	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons:	to skin and mucous membranes. ating effect. ensitizing effects known. g ical information: the following dangers according to internally approved calculat	ion method
on the ey Sensitizat Additiona The produ preparatio Irritant Carcinog	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons: enic categ	to skin and mucous membranes. ating effect. ensitizing effects known. gical information: the following dangers according to internally approved calculat gories	ion method
on the ey Sensitizat Additiona The produ preparatio Irritant Carcinogo IARC (Inte	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons: enic categ ernational	to skin and mucous membranes. ating effect. ensitizing effects known. g ical information: the following dangers according to internally approved calculat	ion method
on the ey Sensitizat Additiona The produ preparatio Irritant Carcinogo IARC (Intel 1330-20-7	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons: enic categ ernational	to skin and mucous membranes. hting effect. ensitizing effects known. b gical information: the following dangers according to internally approved calculat gories I Agency for Research on Cancer)	ion method
on the ey Sensitizat Additiona The produ preparatio Irritant Carcinoge IARC (Intel 1330-20-7 100-41-4	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons: enic categ ernational xylene	to skin and mucous membranes. ating effect. ensitizing effects known. bgical information: the following dangers according to internally approved calculat gories I Agency for Research on Cancer) zene	ion method
on the ey Sensitizat Additiona The produ preparatio Irritant Carcinogo IARC (Inte 1330-20-7 100-41-4 111-76-2	in: Irritant a e: No irrita tion: No se al toxicolog uct shows ons: enic categ ernational xylene ethylbenz 2-butoxyd	to skin and mucous membranes. ating effect. ensitizing effects known. bgical information: the following dangers according to internally approved calculat gories I Agency for Research on Cancer) zene	ion method

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

(Contd. on page 10)

- US

Printing date 09/11/2019

Trade name: 759 GRENATE

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1263	
UN proper shipping name		
DOT	Paint	
ADR	1263 PAINT	
IMDG, IATA	PAINT	
Transport hazard class(es)		
DOT		
3		
Class	3 Flammable liquids	
Label	3	

Reviewed on 06/28/2019

Page 10/14

(Contd. of page 9)



Printing date 09/11/2019

GENERAL

Reviewed on 06/28/2019

Page 11/14

Trade name: 759 GRENATE

	(Contd. of page 10)
· ADR, IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
 Packing group DOT, ADR, IMDG, IATA 	<i>III</i>
 Environmental hazards: Marine pollutant: 	No
· Special precautions for user	Warning: Flammable liquids
· EMS Number: · Stowage Category	F-E, <u>S-E</u> A
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· ADR · Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
·IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III
-	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 12)

US

Page 12/14

Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

CENERAL

Reviewed on 06/28/2019

Trade name: 759 GRENATE

1330-20-7	xvlene	
	ethylbenzene	
	2-butoxyethanol	
	c Substances Control Act):	
•	n-butyl acetate	ACTIVE
1330-20-7	•	ACTIVE
	2-methoxy-1-methylethyl acetate	ACTIVE
	ethylbenzene	ACTIVE
	2-butoxyethanol	ACTIVE
	1-methoxy-2-propanol	ACTIVE
Hazardous	Air Pollutants	
1330-20-7	xylene	
100-41-4	ethylbenzene	
Propositio	1 65	
Chemicals	known to cause cancer:	
100-41-4 e	thylbenzene	
Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals	known to cause developmental toxicity:	
None of the	ingredients is listed.	
Carcinoge	nic categories	
-	onmental Protection Agency)	
1330-20-7		1
100-41-4	ethylbenzene	D
111-76-2	2-butoxyethanol	NI
TLV (Thres	hold Limit Value established by ACGIH)	I
1330-20-7	xylene	A
100-41-4	ethylbenzene	A
111-76-2	2-butoxyethanol	A
NIOSH-Ca	National Institute for Occupational Safety and Health)	
	ingredients is listed.	

(Contd. on page 13)

Page 13/14

Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

(Contd. of page 12) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Warning Hazard-determining components of labeling: n-butyl acetate · Hazard statements Flammable liquid and vapor. Causes skin irritation. Suspected of causing cancer. May cause drowsiness or dizziness. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Printing date 09/11/2019

Reviewed on 06/28/2019

Trade name: 759 GRENATE

Date of preparation / last revision 09/11/2019 / - Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerni the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning t International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic <i>IPVB</i> : National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value		(Contd. of page 13
Contact: N/A Date of preparation / last revision 09/11/2019 / - Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerni the International Transport of Dangerous Goods by Rail) (CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning t international Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ACGIH: American Conference of Governmental Industrial Hygienists ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NVPC: Volatile Organic Compounds (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LO50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PAT: Persistent, Bioaccumulative and Toxic VPS: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLY: Threshold Limit Value PEL: Permissible Exposure Limit EEL: Biological Exposure Limit EEL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2	Department issuing SDS: Product safety department	
Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concernit the International Transport of Dangerous Goods by Rail) CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning te International Maritime Code for Dangerous Goods Dots) DOT: US Department of Transportation VATA: International Maritime Code for Dangerous Goods CGIH: International Air Transport Association ACCHI: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) VIO: Volatile Organic Compounds (USA, EU) LDS0: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent DF1: Persistent, Bioaccumulative and Toxic vPVB: very Persistent, and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit EB2: Biological Exposure Limit EB2: Biolo	Contact: N/A	
Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concernit the International Transport of Dangerous Goods by Rail) CAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning te International Maritime Code for Dangerous Goods Dots) DOT: US Department of Transportation VATA: International Maritime Code for Dangerous Goods CGIH: International Air Transport Association ACCHI: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) VIO: Volatile Organic Compounds (USA, EU) LDS0: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent DF1: Persistent, Bioaccumulative and Toxic vPVB: very Persistent, and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit EB2: Biological Exposure Limit EB2: Biolo	Date of preparation / last revision 09/11/2019 / -	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerni the International Transport of Dangerous Goods by Rail) (CAC: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning t International Carriage of Dangerous Goods by Road) (MDG: International Maritime Code for Dangerous Goods DDT: US Department of Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EILINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HIMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LO50: Lethal concentration, 50 percent DD50: Lethal concentration, 50 percent DD50: Lethal concentration, 50 percent DD51: Very Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning t International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DDT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent DSD: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Canc. 2: Carcinogenicity – Category 2	•	Regulations Concernin
International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	ICAO: International Civil Aviation Organisation	
DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic <i>VPUB</i> : very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit: 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	International Carriage of Dangerous Goods by Road)	ement concerning th
IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Bal: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent DSD: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
VOC: Volatile Organic Compounds (USA, ÉU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Bel: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	VOC: Volatile Organic Compounds (USA, ÉU)	
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	LC50: Lethal concentration, 50 percent	
vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	LD50: Lethal dose, 50 percent	
NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	PBT: Persistent, Bioaccumulative and Toxic	
OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	vPvB: very Persistent and very Bioaccumulative	
TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	NIOSH: National Institute for Occupational Safety	
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	OSHA: Occupational Safety & Health	
REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	TLV: Threshold Limit Value	
BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2	PEL: Permissible Exposure Limit	
Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Carc. 2: Carcinogenicity – Category 2		
Skin Irrit. 2: Skin corrosion/irritation – Čategory 2 Carc. 2: Carcinogenicity – Category 2		
Carc. 2: Carcinogenicity – Category 2		
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3		
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	



Page 14/14