



Printing date 05/06/2019

Reviewed on 05/06/2019

1 Identification

· Product identifier

· Trade name: T590 GRENATE

· Article number: T590

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: General Paint Co. SAL P.O. Box 7623

P.O. Box 7623
Beirut
LEBANON
info@hymax.biz

· Information department: Product Safety Department

· Emergency telephone number: During normal opening times:1-800-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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





GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labeling: n-butyl acetate

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methyl methacrylate

2-hydroxyethyl methacrylate

· Hazard statements

Flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

· Precautionary statements

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.

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

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.

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 or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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 = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 3 Reactivity = 0

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- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:	
123-86-4	n-butyl acetate	>25- <i>≤</i> 50%
1330-20-7	xylene	>10- <i>≤</i> 25%
80-62-6	methyl methacrylate	<i>≤</i> 2.5%
868-77-9	2-hydroxyethyl methacrylate	<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:

Supply fresh air and to be sure call for a doctor.

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
- · Special hazards arising from the substance or mixture No further relevant information available.

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- · 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.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

123-86-4	n-butyl acetate	5 ppm
1330-20-7	xylene	130 ppm
80-62-6	methyl methacrylate	17 ppm
868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m
78-83-1	butanol	150 ppm
97-88-1	n-butyl methacrylate	19 mg/m ³
100-41-4	ethylbenzene	33 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m
PAC-2:		·
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
80-62-6	methyl methacrylate	120 ppm
868-77-9	2-hydroxyethyl methacrylate	21 mg/m³
78-83-1	butanol	1,300 ppn
97-88-1	n-butyl methacrylate	210 mg/m
100-41-4	ethylbenzene	1100* ppn
77-58-7	dibutyltin dilaurate	8 mg/m³
PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
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	methyl methacrylate	570 ppm
868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m³
78-83-1	butanol	8000* ppm
97-88-1	n-butyl methacrylate	1,300 mg/m³
	ethylbenzene	1800* ppm
77-58-7	dibutyltin dilaurate	48 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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-	86-4 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
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1330	0-20-7 xylene
PEL	Long-term value: 435 mg/m³, 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
80-6	2-6 methyl methacrylate
PEL	Long-term value: 410 mg/m³, 100 ppm
REL	Long-term value: 410 mg/m³, 100 ppm
TLV	Short-term value: 410 mg/m³, 100 ppm Long-term value: 205 mg/m³, 50 ppm DSEN
· Ingre	edients with biological limit values:
1330	0-20-7 xylene
BEI	1.5 g/g creatinine

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls

Medium: urine Time: end of shift

- · Personal protective equipment:
- General protective and hygienic measures:

Parameter: Methylhippuric acids

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

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

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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:



Upper:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties · General Information · Appearance: Liquid Form: Dark red Color: · Odor: Characteristic · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 124 °C (255.2 °F) · Flash point: 25 °C (77 °F) · Flammability (solid, gaseous): Not applicable. 370 °C (698 °F) · Ignition temperature: · Decomposition temperature: Not determined. Product is not selfigniting. · Auto igniting: · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 1.1 Vol %

7.5 Vol %

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		(Contd. of page
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)	
· Density at 20 °C (68 °F):	1.008 g/cm³ (8.41176 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:	45.6 %	
Coating VOC content:	45.62 %	
•	459.8 g/l / 3.84 lb/gal	
Material VOC content:	459.8 g/l / 3.84 lb/gal	
Solids content:	54.0 %	
· 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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

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Dermal LD50 2,000 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

. Irritant

· Carcinogenic categories

our onroge	ine categories	
· IARC (Inte	rnational Agency for Research on Cancer)	
1330-20-7	xylene	(
80-62-6	methyl methacrylate	3
100-41-4	ethylbenzene	2
NTP (Natio	onal Toxicology Program)	
None of the	e ingredients is listed.	
OSHA-Ca	(Occupational Safety & Health Administration)	

12 Ecological information

None of the ingredients is listed.

- · 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.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely 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.

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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	1414000	
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	
ADR, IMDG, IATA		
•		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, ADR, IMDG, IATA	III	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	





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EMS Number: Stowage Category	F-E, <u>S-E</u> A
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t II of 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

Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
1330-20-7	kylene	
80-62-6	methyl methacrylate	
100-41-4	ethylbenzene	
TSCA (Toxi	c Substances Control Act):	
123-86-4	n-butyl acetate	ACTIV
1330-20-7	xylene	ACTIV
80-62-6	methyl methacrylate	ACTIV
868-77-9	2-hydroxyethyl methacrylate	ACTIV
78-83-1	butanol	ACTIV
97-88-1	n-butyl methacrylate	ACTIV

US





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	ZINC 2-ETHYLEXANOATE	ACT
100-41-4	ethylbenzene	AC7
	Solvent naphtha (petroleum), medium aliph.	AC7
77-58-7	dibutyltin dilaurate	AC7
· Hazardous	Air Pollutants	
1330-20-7	kylene	
	methyl methacrylate	
100-41-4	ethylbenzene	
Proposition		
	known to cause cancer:	
100-41-4 e	thylbenzene	
· Chemicals	known to cause reproductive toxicity for female	s:
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.	
· Carcinogeı	nic categories	
_	onmental Protection Agency)	
1330-20-7		1
80-62-6	methyl methacrylate	E
100-41-4	ethylbenzene	D
TLV (Thres	hold Limit Value established by ACGIH)	
1330-20-7	kylene	
80-62-6	methyl methacrylate	
100-41-4	ethylbenzene	
77-58-7	dibutyItin dilaurate	
· NIOSH-Ca	National Institute for Occupational Safety and H	ealth)
	ingredients is listed.	-
· GHS label	elements	



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· Hazard pictograms





GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labeling:

n-butyl acetate methyl methacrylate

2-hydroxyethyl methacrylate

· Hazard statements

Flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

· Precautionary statements

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.

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

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.

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 or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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.

HS



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16 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.

- · Department issuing SDS: Product safety department
- · Contact: N/A
- · Date of preparation / last revision 05/06/2019 / -
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning 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 the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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, 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

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3