SAFETY DATA SHEETS

This SDS packet was issued with item:

072068070

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

072069110 072069177

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072067965 072067973 072068005 072068013 072068021 072068039 072068047 072068054 072068062 072068369 072068377



Printing date 04/21/2015

Version US-EN-Rev 1

Reviewed on 04/17/2015

1 Identification

- · Product identifier
- · Trade name: NATURE-CRYL HI-20ET (Liquid)

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

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 3 H301 Toxic if swallowed.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- Skin Corr. 1C H314 Causes severe skin burns and eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

· Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



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Reviewed on 04/17/2015

Trade name: NATURE-CRYL HI-20ET (Liquid)

· Signal word Danger	(Contd. of page 1)
· Hazard-determining components of labeling:	
methyl methacrylate (MMA)	
dimethacrylate**	
· Hazard statements	
Highly flammable liquid and vapor.	
Toxic if swallowed.	
Causes severe skin burns and eye damage.	
Causes eye irritation.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
May cause respiratory irritation.	
· Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Do not breathe dusts or mists. Wear protective gloves / eye protection / face protection.	
If swallowed: Immediately call a poison center/doctor.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wa	ater/shower
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	
to do. Continue rinsing.	in present and easy
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international	regulations.
· Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
Reactivity = 2	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{2} \text{Health} = 2$	
FIRE 3 Fire = 3	
REACTIVITY 2 Reactivity = 2	
· 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.	

90-100%
1-5%
< 0.5%
(Contd. on pag
-

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Reviewed on 04/17/2015

Trade name: NATURE-CRYL HI-20ET (Liquid)

· Additional information:

(Contd. of page 2)

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.

After inhalation:

Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation. Do not use mouth to mouth or mouth to nose resuscitation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

• After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Do not induce vomiting; immediately call for medical help.

- Rinse out mouth and then drink plenty of water.
- · Information for doctor:

· Most important symptoms and effects, both acute and delayed Allergic reactions

• 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Remove persons from danger area.

Keep away from ignition sources

Avoid contact with the eyes and skin.

Wear protective clothing.

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Reviewed on 04/17/2015

Trade name: NATURE-CRYL HI-20ET (Liquid)

(Contd. of page 3) · Environmental precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb liquid components with liquid-binding material. Dispose of the collected material according to regulations. **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. 7 Handling and storage · Handling: · Precautions for safe handling Observe instructions for use. Ensure good ventilation/exhaustion at the workplace. Do not inhale dust / smoke / mist. Prevent formation of aerosols. Avoid contact with the eyes and skin. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. • Storage: · Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. · Information about storage in one common storage facility: Store away from foodstuffs. · Further information about storage conditions: Observe instructions for use / storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place. • 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 	hat require monitoring at the workplace:

80-62-6 methyl methacrylate (MMA)

- 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

(SEN) NIC-DSEN

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Trade name: NATURE-CRYL HI-20ET (Liquid)

· E	Exposure controls
	Personal protective equipment:
	General protective and hygienic measures:
	The usual precautionary measures for handling chemicals should be followed.
	Avoid contact with the eyes and skin.
	Wash hands before breaks and at the end of work.
	Keep away from foodstuffs, beverages and feed.
	mmediately remove all soiled and contaminated clothing.
· E	Breathing equipment: Suitable respiratory protective device recommended.
	Protection of hands: Protective gloves
	Material of gloves
T q s	The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of seve substances, the resistance of the glove material can not be calculated in advance and has therefore be checked prior to the application.
·F	Penetration time of glove material
Т	The exact break through time has to be found out by the manufacturer of the protective gloves and h
t	o be observed.
· E	Eye protection: Safety glasses

 Information on basic physical and General Information 	chemical properties
Appearance: Form: Color: Odor: Odor threshold:	Liquid Colorless Sweetish Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 99 °C (210 °F)
Flash point:	10 °C (50 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Heating may cause an explosion. Product is not explosive. However, formation of explosive air, vapor mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %

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Trade name: NATURE-CRYL HI-20ET (Liquid)

	(Contd	. of page
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.939 g/cm³ (7.836 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wa	ater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
VOC content:	3.7 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· **Reactivity** Danger of polymerization.

- · Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Spontaneous polymerization can be caused in unstabilized product e.g. by ambient heat. Danger of receptacles bursting because of high vapor pressure if heated. Exothermic polymerization.
- · Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Incompatible materials: Reacts with oxidizing agents. Reacts with reducing agents. Reacts with peroxides and other radical forming substances. Reacts with amines. Reacts with heavy metals.
 Hazardous decomposition products: Carbon monoxide
- Carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:

Strong irritant with the danger of severe eye injury. Irritating effect.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

	(Contd. of page 6)
· Sensitization:	(Contd. of page 6)
Sensitization possible through inhalation.	
Sensitization possible through skin contact.	
Additional toxicological information:	
The product shows the following dangers according to internally approv	ed calculation methods for
preparations:	
Corrosive	
Irritant	
· Carcinogenic categories	
 IARC (International Agency for Research on Cancer) 	
methyl methacrylate (MMA)	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
 OSHA-Ca (Occupational Safety & Health Administration) 	
None of the ingredients is listed.	
· Carcinogenic categories' legend:	
IARC Group 1: The agent is carcinogenic to humans.	
IARC Group 2A: The agent is probably carcinogenic to humans.	
IARC Group 2B: The agent is possibly carcinogenic to humans.	
IARC Group 3: The agent is not classifiable as to its carcinogenicity to huma	ans.
IARC Group 4: The agent is probably not carcinogenic to humans. NTP K: Known to be human carcinogen.	
NTP R: Reasonably anticipated to be human carcinogen.	

- · 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: Not known to be hazardous to water.
- · 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.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

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

UN-Number	
DOT, ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG, IATA	UN1247 Methyl methacrylate monomer, stabilized 1247 Methyl methacrylate monomer, stabilized METHYL METHACRYLATE MONOMER, STABILIZED
Transport hazard class(es)	
Class	3 Flammable liquids
Label ADR	3
Class Label	3 (F1) Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Flammable liquids 339 F-E,S-D
Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

	(Contd. of page 8
· Transport/Additional information:	
· ADR	
 Excepted quantities (EQ) 	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
·IMDG	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1247, Methyl methacrylate monomer, stabilized, 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • SARA (Superfund Amendments and Reauthorization Act)

- · Section 355 (extremely hazardous substances):
- None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):
- methyl methacrylate (MMA)
- TSCA (Toxic Substances Control Act):
- All ingredients are listed.
- Carcinogenic categories
- · EPA (Environmental Protection Agency)
- methyl methacrylate (MMA)

E, NL

A4

- TLV (Threshold Limit Value established by ACGIH)
- methyl methacrylate (MMA)
- · NIOSH-Ca (National Institute for Occupational Safety and Health)
- None of the ingredients is listed.
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: methyl methacrylate (MMA) dimethacrylate**
- Hazard statements Highly flammable liquid and vapor. Toxic if swallowed.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

Causes severe skin burns and eye damage.	(Contd. of page 9)
Causes eye irritation.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
May cause respiratory irritation.	
· Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Do not breathe dusts or mists.	
Wear protective gloves / eye protection / face protection.	
If swallowed: Immediately call a poison center/doctor.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	
to do. Continue rinsing.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internation	nal regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carr	ied out.
16 Other information	
Department issuing SDS: Regulatory Affairs	
Contact:	
Regulatory Affairs	
Telephone No. +1 (708) 597-0900	
sds@gcamerica.com	
Date of preparation / last revision 04/21/2015 / -	
Abbreviations and acronyms:	
GHS: Globally Harmonized System of Classification and Labelling of Chemicals HCS: Hazard Communication Standard (USA)	
MSDS: Material Safety Data Sheet	
SDS: Safety Data Sheet	
ECHA: European Chemicals Agency	
OSHA: Occupational Safety and Health Administration (USA) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European A	areement concerning the
International Carriage of Dangerous Goods by Road)	.g. comont concorning the
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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 Flam. Lig. 2: Flammable liquids, Hazard Category 2	
Acute Tox. 3: Acute toxicity, Hazard Category 3	
Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C	
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B	
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
Sources	
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Trade name: NATURE-CRYL HI-20ET (Liquid)

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- Manufacturers' MSDSs/SDSs
- OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
- TOXNET (http://toxnet.nlm.nih.gov/)
- ECHA (http://echa.europa.eu/)
- EnviChem (www.echemportal.org)

· Notes:

CAS Registry Number is a Registered Trademark of the American Chemical Society. CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.

• * Data compared to the previous version altered. This version replaces all previous versions.

· Disclaimer:

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

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Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

- **1** Identification
- · Product identifier
- · Trade name: NATURE-CRYL HI-20ET (Liquid)
- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

- · Information department: Regulatory Affairs
- Emergency telephone number: During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard identification

· Classification of the substance or mixture

Flammable Liquids - Category 2

Acute Toxicity (Oral) - Category 3

Skin Irritation - Category 2

Skin Sensitizer - Category 1

Specific Target Organ Toxicity - Single Exposure - Category 3

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: methyl methacrylate (MMA) dimethacrylate**
- Hazard statements Highly flammable liquid and vapour.

(Contd. on page 2)

CA

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: NATURE-CRYL HI-20ET (Liquid)

(Contd. of page 1)
Toxic if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation. • Precautionary statements
 Frecationary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
 Classification system: NFPA ratings (scale 0 - 4)
Health = 2 Fire = 3 Reactivity = 2
· HMIS-ratings (scale 0 - 4)
HEALTH2FIRE3Fire = 3REACTIVITY 2Reactivity = 2

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
CAS: 80-62-6	methyl methacrylate (MMA)	60 - 100% w/w
	dimethacrylate**	1 - 5% w/w
	activator**	≤ 1% w/w
Additional information.		

Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

If symptoms persist consult doctor.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

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Printing date 03/13/2018

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Reviewed on 01/09/2018

Trade name: NATURE-CRYL HI-20ET (Liquid)

Do not use mouth to mouth or mouth to nose resuscitation. • After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment. • After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor. • After swallowing: Do not induce vomiting; immediately call for medical help. Rinse out mouth and then drink plenty of water. • Information for doctor: • Most important symptoms and effects, both acute and delayed Allergic reactions • Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 2)
5 Firefighting measures	
 Extinguishing media Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents: Water Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official respiratory 	gulations.
6 Accidental release measures	
• Personal precautions, protective equipment and emergency procedures Remove persons from danger area.	

Remove persons from danger area.
Keep away from ignition sources
Avoid contact with the eyes and skin.
Wear protective clothing.
Environmental precautions:
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Absorb liquid components with liquid-binding material.
Dispose of the collected material according to regulations.
Reference to other sections
See Section 7 for information on safe handling.

See Section 7 for information on safe nandling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

(Contd. of page 3)

7 Handling and storage

· Handling:

- Precautions for safe handling
 Observe instructions for use.
 Ensure good ventilation/exhaustion at the workplace.
 Do not inhale dust / smoke / mist.
 Prevent formation of aerosols.
 Avoid contact with the eyes and skin.
 Information about protection against explosions and fires:
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Do not spray on a naked flame or any incandescent material.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:
- Observe instructions for use / storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place. • **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Breathing equipment:



Suitable respiratory protective device recommended.

(Contd. on page 5)

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Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: NATURE-CRYL HI-20ET (Liquid)

(Contd. of page 4)

· Protection of hands:



Protective gloves

· 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:

Manufacturing sites:

Wear safety glasses with side shields (or goggles). Distribution, Workplace, and Household Settings: No special protective equipment required

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
· Appearance: Form:	Liquid
Color: · Odor:	Colorless Sweetish
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 99 ℃
· Flash point:	10 ℃
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Heating may cause an explosion. Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits:	
Lower: Upper:	2.1 Vol % 12.5 Vol %
· Vapor pressure:	Not determined.
· Density at 20 °C:	0.939 g/cm ³
	(Contd. on page 6

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Trade name: NATURE-CRYL HI-20ET (Liquid)

		(Contd. of page
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
 Solubility in / Miscibility with Water: 	Insoluble.	
· Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
 Other information 	No further relevant information available.	

10 Stability and reactivity

- · Reactivity Danger of polymerization.
- · Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Spontaneous polymerization can be caused in unstabilized product e.g. by ambient heat. Danger of receptacles bursting because of high vapor pressure if heated. Exothermic polymerization.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials:

- Reacts with oxidizing agents. Reacts with reducing agents. Reacts with peroxides and other radical forming substances. Reacts with amines. Reacts with heavy metals.
- Hazardous decomposition products: Carbon monoxide Carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

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Trade name: NATURE-CRYL HI-20ET (Liquid)

· Careine genie este geries	(Contd. of page 6)
· Carcinogenic categories	
 IARC (International Agency for Research on Cancer) 	
methyl methacrylate (MMA)	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
 Carcinogenic categories' legend: IARC Group 1: The agent is carcinogenic to humans. IARC Group 2A: The agent is probably carcinogenic to humans. IARC Group 2B: The agent is possibly carcinogenic to humans. IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans. IARC Group 4: The agent is probably not carcinogenic to humans. NTP K: Known to be human carcinogen. NTP R: Reasonably anticipated to be human carcinogen. Repeated dose toxicity. No further relevant information available. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available. No further relevant information available. 	

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.
- Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, TDG, IMDG, IATA	UN1247
· UN proper shipping name	
·DOT	Methyl methacrylate monomer, stabilized
· TDG	1247 Methyl methacrylate monomer, stabilized
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED

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Trade name: NATURE-CRYL HI-20ET (Liquid)

	(Contd. of page
Transport hazard class(es)	
DOT	
LANIMEL LUUD	
Class	3 Flammable liquids
· Label · TDG (Transport dangerous goods):	3
3	
Class	3 (F1) Flammable liquids
Label	3
· IMDG, IATA	
Class	3 Flammable liquids
	3
 Packing group DOT, TDG, IMDG, IATA 	П
Environmental hazards:	11
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	339
· EMS Number: · Stowage Category	F-E,S-D B
· Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex I	<u> </u>
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·TDG	
 Excepted quantities (EQ) 	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
·IMDG	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
	(Contd. on page

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Trade name: NATURE-CRYL HI-20ET (Liquid)

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· UN "Model Regulation":

UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
 SARA (Superfund Amendments and Reauthorization Act)
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings): methyl methacrylate (MMA)

• TSCA (Toxic Substances Control Act):

dimethacrylate**

activator**

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

methyl methacrylate (MMA)

dimethacrylate*

stabilizer**

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

methyl methacrylate (MMA)

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: methyl methacrylate (MMA) dimethacrylate**
- Hazard statements Highly flammable liquid and vapour. Toxic if swallowed. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.
- **Precautionary statements** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

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Trade name: NATURE-CRYL HI-20ET (Liquid)

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Rinse mouth.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Take off contaminated clothing and wash it before reuse. 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.

16 Other information

Department issuing SDS: Regulatory Affairs

· Contact:

Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com

Date of preparation / last revision 03/13/2018 / -

· Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals HCS: Hazard Communication Standard (USA) MSDS: Material Safety Data Sheet SDS: Safety Data Sheet ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (USA) LEL: Lower Explosive Limit **UEL: Upper Explosive Limit** IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative · Sources

- Manufacturers' MSDSs/SDSs
- OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
- TOXNET (http://toxnet.nlm.nih.gov/)
- ECHA (http://echa.europa.eu/)
- EnviChem (www.echemportal.org)

· Notes:

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* * Data compared to the previous version altered. This version replaces all previous versions.

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1 Identification

- · Product identifier
- Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)
- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

- · Information department: Regulatory Affairs
- Emergency telephone number: During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard identification

· Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

· Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Warning

· Hazard statements

Causes skin irritation. Causes serious eve irritation.

· Precautionary statements

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)

(Contd. of page 1) If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 1Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 11 Fire = 1FIRE Reactivity = 0REACTIVITY 0

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

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

Dangerous components:		
poly[(isodecyl methacrylate)-co-(methyl methacrylate)]	10 - 30% w/w	
poly(methyl methacrylate)	1 - 5% w/w	
Additional information.		

Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First aid measures Description of first aid measures · General information: Immediately remove any clothing soiled by the product. If symptoms persist consult doctor. · After inhalation: Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately wash with water and soap and rinse thoroughly. Rinse with warm water. Seek medical treatment. If symptoms persist consult doctor. · After eye contact: Protect unharmed eve. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing:

Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

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(Contd. of page 2)

- 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 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
 Remove persons from danger area.
 Avoid formation of dust.
 Avoid contact with the eyes and skin.
 Wear protective clothing.

 Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to penetrate the ground/soil.
 In case of seepage into the ground inform responsible authorities.
 Methods and material for containment and cleaning up:

- Pick up mechanically. Prevent formation of dust. Dispose of the collected material according to regulations. • 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.

7 Handling and storage

- · Handling:
- Precautions for safe handling
- Observe instructions for use.
- Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy,

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(Contd. of page 4)

• 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: Safety glasses

Information on basic physical and General Information	
Appearance:	
Form:	Free-flowing powder
Color: Odor:	Shade specific Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/wat	
•	
Viscosity:	N. C. S. P. S. L.
Dynamic: Kinematic:	Not applicable.
	Not applicable.
Solvent content:	

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Safety Data Sheet according to HPR, Schedule 1

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Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable at ambient temperature.
- 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: No further relevant information available.
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
poly(methyl methacrylate)	3
titanium dioxide	2B
Colorant	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· Carcinogenic categories' legend:	
IARC Group 1: The agent is carcinogenic to humans.	
IARC Group 2A: The agent is probably carcinogenic to humans.	
IARC Group 2B: The agent is possibly carcinogenic to humans.	
IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.	
IARC Group 4: The agent is probably not carcinogenic to humans.	
NTP K: Known to be human carcinogen.	
NTP R: Reasonably anticipated to be human carcinogen.	
. Depended doop to visity . No further relevant information evailable	

- · Repeated dose toxicity. No further relevant information available.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** No further relevant information available.

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)

(Contd. of page 6)

No further relevant information available.

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.
- · 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.

13 Disposal considerations

- · Waste treatment methods
- **Recommendation:** Dispose of contents / container in accordance with local / regional / national / international regulations.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT, TDG, ADN, IMDG, IATA	Void	
 · UN proper shipping name · DOT, TDG, ADN, IMDG, IATA 	Void	
· Transport hazard class(es)		
· DOT, TDG, ADN, IMDG, IATA · Class	Void	
 Packing group DOT, TDG, IMDG, IATA 	Void	
 Environmental hazards: Marine pollutant: 	No	
· Special precautions for user	Not applicable.	
		(Contd. on page 8)

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)

(Contd. of page 7)

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Void

15 Regulatory information

· UN "Model Regulation":

· Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA (Superfund Amendments and Reauthorization Act)

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

poly(methyl methacrylate)

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

poly(methyl methacrylate)

titanium dioxide

iron hydroxide oxide yellow

triiron tetraoxide

C.I. Pigment Red 178

Colorant

C.I. Pigment Blue 29

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Warning

• Hazard statements Causes skin irritation.

Causes serious eye irritation.

• **Precautionary statements** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)

(Contd. of page 8) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

- · Department issuing SDS: Regulatory Affairs
- · Contact:

Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com

· Date of preparation / last revision 03/13/2018 / -

Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HCS: Hazard Communication Standard (USA)

MSDS: Material Safety Data Sheet

SDS: Safety Data Sheet

ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)

ECHA: European Chemicals Agency

OSHA: Occupational Safety and Health Administration (USA)

C.I.: Colour Index

LEL: Lower Explosive Limit

UEL: Upper Explosive Limit

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

· Sources

- Manufacturers' MSDSs/SDSs
- OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
- TOXNET (http://toxnet.nlm.nih.gov/)
- ECHA (http://echa.europa.eu/)
- EnviChem (www.echemportal.org)

· Notes:

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* * Data compared to the previous version altered. This version replaces all previous versions.

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Trade name: NATURE-CRYL HI-20ET (Powder, Shades: COE Light Fibered+, COE-LOR Heavy, COE-LOR Mild, COE-LOR Moderate, Light, Light Reddish Pink, and Original)

our negligence or for fraudulent misrepresentation.

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