SAFETY DATA SHEETS

This SDS packet was issued with item:

071293984

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

071294016 71294016



Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/23/2021

Version CA-EN-Rev 1

Reviewed on 01/23/2021

1 Identification

- · Product identifier
- · Trade name: G2-BOND Universal (1-PRIMER)

· 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 Dental bonding material
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc.

3737 W. 127th Street Alsip, IL 60803 USA

SDS.gcamerica@gc.dental

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Monday–Friday 8:00 AM–5:00 PM Central Time): +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 Skin Corrosion - Category 1A

Serious Eye Damage - Category 1 Skin Sensitizer - Category 1 Reproductive Toxicity - Category 1B Specific Target Organ Toxicity - Single Exposure -Category 3

- H225 Highly flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H360 May damage fertility or the unborn child.
- H336 May cause drowsiness or dizziness.

• 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

Exempt from classification and labeling – devices and drugs are not regulated according to WHMIS 2015.

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



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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/23/2021

Version CA-EN-Rev 1

Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

· Signal word Danger	Contd. of page 1)
 Hazard-determining components of labeling: acetone 	
dimethacrylate component**	
photoinitiator**	
synergist**	
· Hazard statements	
Highly flammable liquid and vapour.	
Causes severe skin burns and eye damage.	
May cause an allergic skin reaction.	
May damage fertility or the unborn child.	
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No sm	loking.
Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.	
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water	r [or shower]
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it	
easy to do. Continue rinsing.	procont and
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regula	ations.
· Additional information:	
34.5 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.	

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous c	omponents:	
CAS: 67-64-1	acetone	15 – 40% w/w
	dimethacrylate**	7 – 13% w/w
	phosphoric acid ester monomer**	3 – 7% w/w
	dimethacrylate component**	1 – 5% w/w
	photoinitiator**	1 – 5% w/w
	synergist**	0.1 – 1% w/w

· Additional information:

Concentrations of dangerous components are expressed in percent by weight (% w/w).

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).

Safety Data Sheet according to HPR, Schedule 1

Printing date 01/23/2021

Version CA-EN-Rev 1

Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

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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. Seek medical treatment.
- After eye contact: Protect unharmed eye.
 Rinse opened eye for several minutes under running water.
 Call a doctor immediately.
- After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.
- 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, 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 (CO) 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.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/23/2021

Version CA-EN-Rev 1

Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

• Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Use neutralizing agent.

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

Avoid contact with the eyes and skin. Ensure good ventilation/exhaustion at the workplace. Observe instructions for use. Prevent formation of aerosols.

Use caution when opening. The product is a highly flammable liquid and vapor; keep away from heat, hot surfaces, sparks, flames and other ignitions sources. Use with adequate ventilation. Do not ingest or breathe vapor. Personal Protective Equipment (PPE) such as gloves and safety eyewear are always to be worn. Check bottle with liquid before using. Make sure that upon removal of cap, the bottle opening has no obstructions. Some bottles may contain an insert (as a seal). The insert must be in the cap and not obstructing opening.

In case of contact, flush eyes with water for at least 15 minutes. Get prompt medical attention. If overcome by vapor, move to fresh air. If breathing is difficult, administer oxygen and seek medical attention. If swallowed, dilute by giving water to drink and seek medical attention. In case of contact with skin wash thoroughly with soap and water. Store securely. Store in a well ventilated place. Keep cool. Dispose of all waste according to local regulations.

 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: Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Observe instructions for use / storage.
 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.

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Safety Data Sheet according to HPR, Schedule 1

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Printing date 01/23/2021

Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

(Contd. of page 4)
· Control parameters
· Components with limit values that require monitoring at the workplace:
CAS: 67-64-1 acetone
EL STEL: 500 ppm TWA: 250 ppm
TWA: 500 ppm
 Regulatory information EL: OHS Guidelines Part 5. Table of Exposure Limits for Chemical and Biological Substances
EV: O. Reg. 287/17
. Additional information: The lists that were valid during the creation were used as pasis.
 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.
· 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:



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Trade name: G2-BOND Universal (1-PRIMER)

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Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Yellow opaque 1.4080 – 1.4110
· Refractive index: · Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value at 20 °C:	1.5 – 2
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55.8 – 56.6 °C
Flash point:	< -18 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
· Vapor pressure:	Not determined.
· Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Soluble.
Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	33.0 %
Water:	23.7 %
Solids content:	9.7 %
• Other information	No further relevant information available.

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Trade name: G2-BOND Universal (1-PRIMER)

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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: Carbon dioxide Carbon monoxide

11 Toxicological information

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

CAS: 128-37-0 butylated hydroxytoluene

Oral LD50 10700 mg/kg (guinea pig)

1040 mg/kg (mouse)

> 2930 mg/kg (rat (f+m))

- Dermal LD50 > 2000 mg/kg (rat (f+m))
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: Sensitization possible through skin contact.
- · Symptoms related to the physical, chemical and toxicological characteristics: Allergic reactions
- Subacute to chronic toxicity: No further relevant information available.
- Numerical measures of toxicity:

No ATEmix is calculated because ingredients of the mixture with LD50 or LC50 values are not considered relevant because of low concentration, a less severe acute toxicity category, or both. (ATEmix is the acute toxicity estimate of the mixture.)

· Additional toxicological information:

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

- Corrosive
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
butylated hydroxytoluene	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.	

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Trade name: G2-BOND Universal (1-PRIMER)

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.

· Additional carcinogenic information:

· Repeated dose toxicity. No further relevant information available.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Reproductive Toxicity - Category 1B
- Germ cell mutagenicity No further relevant information available.
- · Carcinogenicity No further relevant information available.
- · Reproductive toxicity No further relevant information available.
- Specific target organ toxicity single exposure No further relevant information available.
- · Specific target organ toxicity repeated exposure No further relevant information available.
- Aspiration hazard No further relevant information available.

12 Ecological information

· Toxicity

· Aquatic toxicity:

CAS: 128-37-0 butylated hydroxytoluene

NOEC-value Ecol. other effects 0.07 mg/l (daphnia magna)

21 day, reproductive effects

- 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German regulation, AwSV) (Self-assessment): slightly hazardous to water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

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Safety Data Sheet

according to HPR, Schedule 1 Version CA-EN-Rev 1

Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

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· Uncleaned packagings:

Printing date 01/23/2021

Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT/TDG, ADR, IMDG, IATA	UN1090	
UN proper shipping name DOT/TDG ADR IMDG, IATA	Acetone solution 1090 ACETONE solution ACETONE solution	
Transport hazard class(es)		
DOT/TDG (Transport dangerous good	ds):	
LAMMAL 1000		
Class Label	3 Flammable liquids 3	
ADR		
Class Label	3 (F1) Flammable liquids 3	
IMDG, IATA		
Class Label	3 Flammable liquids 3	
Packing group DOT/TDG, ADR, IMDG, IATA	11	
Environmental hazards:	Not applicable.	
Special precautions for user Hazard identification number (Kemler EMS Number: Stowage Category	Warning: Flammable liquids r code): 33 F-E,S-D E	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	

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Trade name: G2-BOND Universal (1-PRIMER)

	(Contd. of pag
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":	UN 1090 ACETONE SOLUTION, 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Canadian substance listings:

eundalan eusetanee netinge.	
· Canadian Domestic Substances List (DSL)	
acetone	
water, distilled	
dimethacrylate component**	
photoinitiator**	
photoinitiator**	
butylated hydroxytoluene	
aluminum oxide	
synergist**	
L	

• 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).

• Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

acetone

dimethacrylate component**

· GHS label elements

Exempt from classification and labeling – devices and drugs are not regulated according to WHMIS 2015.

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

Hazard pictograms



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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/23/2021

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Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

·Siar	al word Danger	(Contd. of page 10)
-	ard-determining components of labeling:	
acet		
	thacrylate component**	
	pinitiator**	
syne	rgist**	
	ird statements	
	y flammable liquid and vapour.	
	ses severe skin burns and eye damage.	
	cause an allergic skin reaction.	
	damage fertility or the unborn child.	
	cause drowsiness or dizziness. autionary statements	
	a way from heat, hot surfaces, sparks, open flames and other ignition sources.	No smoking
Do n	ot breathe dust/fume/gas/mist/vapours/spray.	NO SHIOKING.
	r protective gloves/protective clothing/eye protection/face protection.	
	N SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	n water [or shower].
	EYES: Rinse cautiously with water for several minutes. Remove contact ler	
	to do. Continue rinsing.	
	ediately call a poison center/doctor.	
	posed or concerned: Get medical advice/attention.	
	ific treatment (see on this label).	
	off contaminated clothing and wash it before reuse.	
	e locked up.	Iroquiationa
	ose of contents/container in accordance with local/regional/national/internationa nical safety assessment: A Chemical Safety Assessment has not been carrie	
Olle	incal safety assessment. A chemical safety Assessment has not been came	u out.
16 Oth	er information	
· Don	artment issuing SDS: Regulatory Affairs	
· Con		
	ilatory Affairs	
	phone No. +1 (708) 597-0900	
	gcamerica@gc.dental	
	of the latest revision of the safety data sheet 01/23/2021 / -	
	eviations and acronyms:	
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals	
	Hazard Communication Standard (USA) 3: Material Safety Data Sheet	
	Safety Data Sheet	
ECHA	: European Chemicals Agency	
	.: Occupational Safety and Health Administration (USA) Transportation of Dangerous Goods (Canada)	
	ower Explosive Limit	
UEL:	Jpper Explosive Limit	
	': Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance or ances that are hazardous to water) (Germany)	n facilities for handling
	: No Observed Effect Concentration	
ADR:	Accord européen relatif au transport international des marchandises dangereuses par route	e (European Agreement
	rning the International Carriage of Dangerous Goods by Road) Code: International Maritime Dangerous Goods Code	
	Code: International Maritime Dangerous Goods Code Department of Transportation (USA)	
IATA:	International Air Transport Association	
	Chemical Abstracts Service (division of the American Chemical Society)	
	Lethal concentration, 50 percent Lethal dose, 50 percent	
2000	· · · · · · · · · · · · · · · · · · ·	
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Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

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)
- PubChem (https://pubchem.ncbi.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.

· 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.



Printing date 01/23/2021

Version US-EN-Rev 1

Reviewed on 01/23/2021

1 Identification

· Product identifier

· Trade name: G2-BOND Universal (1-PRIMER)

· 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 Dental bonding material
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

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

SDS.gcamerica@gc.dental

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Monday–Friday 8:00 AM–5:00 PM Central Time): +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.

- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Repr. 1B H360 May damage fertility or the unborn child.

STOT SE 3 H336 May cause drowsiness or dizziness.

• 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

Exempt from labeling – medical devices and drugs do not require labeling according to HCS 2012. The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

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Trade name: G2-BOND Universal (1-PRIMER)

	(Contd. of page 1)
Hazard-determining components of I	abeling:
acetone	Ū
dimethacrylate component**	
photoinitiator**	
synergist**	
Hazard statements	
Highly flammable liquid and vapor.	
Causes severe skin burns and eye dam	lage.
May cause an allergic skin reaction.	-
May damage fertility or the unborn child	I.
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat/sparks/open flam	es/hot surfaces No smoking.
Do not breathe dusts or mists.	
Wear protective gloves/protective clothi	
	y all contaminated clothing. Rinse skin with water/shower.
	for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.	
Immediately call a poison center/doctor	
IF exposed or concerned: Get medical	advice/attention.
Specific treatment (see on this label).	
Store locked up.	
Dispose of contents/container in accord	ance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (H	INOC): None known.
Additional information:	
34.5 % of the mixture consists of comp	onent(s) of unknown toxicity.
Other hazards	
Results of PBT and vPvB assessmer	nt

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous c	omponents:	
CAS: 67-64-1	acetone	25 - < 50%
	dimethacrylate**	10 - < 25%
	phosphoric acid ester monomer**	5 – < 10%
	dimethacrylate component**	2.5 – < 5%
	photoinitiator**	1 - < 2.5%
	synergist**	0.2 - < 0.5%

· Additional information:

Concentrations of dangerous components are expressed in percent by weight (% w/w).

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).

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Trade name: G2-BOND Universal (1-PRIMER)

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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. Seek medical treatment.
- After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. Call a doctor immediately.
- After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.
- 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, 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 (CO) 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.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

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		(Contd. of page
	aterial for containment and cleaning up:	
Ensure adequate		
Use neutralizing		
	mponents with liquid-binding material.	
	ollected material according to regulations.	
• Reference to ot		
	r information on safe handling.	
	r information on personal protection equipment. for disposal information.	
	on Criteria for Chemicals	
** indicates the I *** indicates the excerpt from Intr	PAC value is between 10% and up to 50% of the LEL (10% LEL \leq PAC < PAC value is between 50% and up to 100% of the LEL (50% LEL \leq PAC PAC value is at 100% or more of the LEL (PAC \geq LEL). oduction to PAC Table 2 – PAC Rev. 29 – May 2016	< 50% LEL). < 100% LEL
PAC-1:		000
CAS: 67-64-1	acetone	
CAS: 67-64-1	dimethacrylate component**	33 mg/n
CAS: 67-64-1		33 mg/n
CAS: 67-64-1	dimethacrylate component**	33 mg/n
CAS: 67-64-1 CAS: 1344-28-1	dimethacrylate component**	33 mg/n 15 mg/n
CAS: 67-64-1 CAS: 1344-28-1 · PAC-2:	dimethacrylate component** aluminum oxide	33 mg/n 15 mg/n 3200* pp
CAS: 67-64-1 CAS: 1344-28-1 • PAC-2: CAS: 67-64-1	dimethacrylate component** aluminum oxide acetone	33 mg/n 15 mg/n 3200* pp 360 mg/n
CAS: 67-64-1 CAS: 1344-28-1 • PAC-2: CAS: 67-64-1	dimethacrylate component** aluminum oxide acetone dimethacrylate component**	33 mg/n 15 mg/n 3200* pp 360 mg/n
CAS: 67-64-1 CAS: 1344-28-1 · PAC-2: CAS: 67-64-1 CAS: 1344-28-1	dimethacrylate component** aluminum oxide acetone dimethacrylate component**	33 mg/n 15 mg/n 3200* pp 360 mg/n 170 mg/n
CAS: 67-64-1 CAS: 1344-28-1 • PAC-2: CAS: 67-64-1 CAS: 1344-28-1 • PAC-3:	dimethacrylate component** aluminum oxide acetone dimethacrylate component** aluminum oxide	200 ppn 33 mg/n 15 mg/n 3200* ppi 360 mg/n 170 mg/n 5700* ppm 2,100 mg/n

7 Handling and storage

· Handling:

· Precautions for safe handling

Avoid contact with the eyes and skin. Ensure good ventilation/exhaustion at the workplace. Observe instructions for use. Prevent formation of aerosols.

Use caution when opening. The product is a highly flammable liquid and vapor; keep away from heat, hot surfaces, sparks, flames and other ignitions sources. Use with adequate ventilation. Do not ingest or breathe vapor. Personal Protective Equipment (PPE) such as gloves and safety eyewear are always to be worn. Check bottle with liquid before using. Make sure that upon removal of cap, the bottle opening has no obstructions. Some bottles may contain an insert (as a seal). The insert must be in the cap and not obstructing opening.

In case of contact, flush eyes with water for at least 15 minutes. Get prompt medical attention. If overcome by vapor, move to fresh air. If breathing is difficult, administer oxygen and seek medical attention. If swallowed, dilute by giving water to drink and seek medical attention. In case of contact with skin wash thoroughly with soap and water. Store securely. Store in a well ventilated place. Keep cool. Dispose of all waste according to local regulations.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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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: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Observe instructions for use / storage. 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

- REL: Guide to Occupational Exposure Values (NIOSH RELs)
- TLV: Guide to Occupational Exposure Values (TLV)

· Ingredients with biological limit values:

CAS: 67-64-1 acetone

BEI 50 mg/L Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

• **Regulatory information** BEI: Guide to Occupational Exposure Values (BEI)

• 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.

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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(Contd. of page 5) Immediately remove all soiled and contaminated clothing. Breathing equipment: Suitable respiratory protective device recommended. · 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: Safety glasses 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Yellow opaque · Refractive index: 1.4080 - 1.4110· Odor: Characteristic . . Not dot

· Odor threshold:	Not determined.	
· pH-value at 20 °C (68 °F):	1.5 – 2	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 55.8 – 56.6 °C (132.4 – 133.9 °F)	
· Flash point:	< -18 °C (< -0.4 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Undetermined.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
		(Contd. on page 7)

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	(Contd. of page
· Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
· Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Soluble.
· Partition coefficient (n-octanol/	water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	33.0 %
Water:	23.7 %
VOC content:	0.00 %
Solids content:	9.7 %
· 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: Carbon dioxide Carbon monoxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 128-37-0 butylated hydroxytoluene

Oral LD50 10700 mg/kg (guinea pig)

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	(Contd. of pa
	1040 mg/kg (mouse)
	> 2930 mg/kg (rat (f+m))
Dermal	LD50 > 2000 mg/kg (rat (f+m))
	rirritant effect:
	skin: Strong caustic effect on skin and mucous membranes.
· on the	
	austic effect. ritant with the danger of severe eye injury.
	ration: Sensitization possible through skin contact.
	ms related to the physical, chemical and toxicological characteristics: Allergic reaction
	te to chronic toxicity: No further relevant information available.
	cal measures of toxicity:
	mix is calculated because ingredients of the mixture with LD50 or LC50 values are
	red relevant because of low concentration, a less severe acute toxicity category, or be
(A l'Emi	(is the acute toxicity estimate of the mixture.)
	nal toxicological information:
	duct shows the following dangers according to internally approved calculation methods
prepara	
Corrosiv	e
· Carcino	genic categories
· IARC (I	nternational Agency for Research on Cancer)
butylate	d hydroxytoluene
•	ational Toxicology Program)
None of	the ingredients is listed.
	Ca (Occupational Safety & Health Administration)
None of	the ingredients is listed.
	genic categories' legend:
	roup 1: The agent is carcinogenic to humans.
	roup 2A: The agent is probably carcinogenic to humans.
	roup 2B: The agent is possibly carcinogenic to humans.
IARC G	roup 3: The agent is not classifiable as to its carcinogenicity to humans.
IARC G IARC G	roup 3: The agent is not classifiable as to its carcinogenicity to humans. roup 4: The agent is probably not carcinogenic to humans.
IARC G IARC G NTP K:	roup 3: The agent is not classifiable as to its carcinogenicity to humans.
IARC G IARC G NTP K: NTP R:	roup 3: The agent is not classifiable as to its carcinogenicity to humans. roup 4: The agent is probably not carcinogenic to humans. Known to be human carcinogen.
IARC G IARC G NTP K: NTP R: • Additio • Repeat	roup 3: The agent is not classifiable as to its carcinogenicity to humans. roup 4: The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. nal carcinogenic information: ad dose toxicity. No further relevant information available.
IARC G IARC G NTP K: NTP R: • Additio • Repeate • CMR ef	roup 3: The agent is not classifiable as to its carcinogenicity to humans. roup 4: The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. nal carcinogenic information: ed dose toxicity. No further relevant information available. fects (carcinogenicity, mutagenicity and toxicity for reproduction)
IARC G IARC G NTP K: NTP R: Additio Repeat CMR ef Repr. 1	roup 3: The agent is not classifiable as to its carcinogenicity to humans. roup 4: The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. nal carcinogenic information: ed dose toxicity. No further relevant information available. fects (carcinogenicity, mutagenicity and toxicity for reproduction)
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IARC G IARC G NTP K: NTP R: Additio Repeat CMR ef Repr. 11 Germ c Carcino	 The agent is not classifiable as to its carcinogenicity to humans. The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. nal carcinogenic information: ed dose toxicity. No further relevant information available. fects (carcinogenicity, mutagenicity and toxicity for reproduction) a b b c c
IARC G IARC G NTP K: NTP R: Additio Repeat CMR ef Repr. 11 Germ c Carcino Reprod	 The agent is not classifiable as to its carcinogenicity to humans. The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. The agent information: The agent information: The agent is formation: The agent is formation:
IARC G IARC G NTP K: NTP R: Additio Repeate CMR ef Repr. 11 Germ c Carcino Reprod	 The agent is not classifiable as to its carcinogenicity to humans. The agent is probably not carcinogenic to humans. Known to be human carcinogen. Reasonably anticipated to be human carcinogen. nal carcinogenic information: ed dose toxicity. No further relevant information available. fects (carcinogenicity, mutagenicity and toxicity for reproduction) a b b c c

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Aquatic toxicity: CAS: 128-37-0 butylated hydroxytoluene NOEC-value Ecol. other effects 0.07 mg/l (daphnia magna) 21 day, reproductive effects 0.07 mg/l (daphnia magna) 21 day, reproductive effects 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. Mobility in soil No further relevant information available. Ecotoxical effects: Remark: Harmful to fish Additional ecological information: General notes: Water hazard class 1 (German regulation, AwSV) (Self-assessment): slightly hazardous to water Do not allow undiluted product or large quantities of it to reach ground water, water course or sew system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Harmful to aquatic organisms Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-value low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is consider increased, so that after the use of the product the aqueous waste, emptied into drains, is only water-dangerous. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable.	· Toxicity	
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	· Uncleaned packagings:	
4 Transport information	4 Transport information	

• UN proper shipping name
 • DOT Acetone
 • ADR 1090 A0

· IMDG, IATA

Acetone solution 1090 ACETONE solution ACETONE solution

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	(Contd. of page
· Transport hazard class(es)	
DOT	
RAMMER UND	
· Class · Label	3 Flammable liquids 3
ADR	
Class	3 (F1) Flammable liquids
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, ADR, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids 33 F-E,S-D E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1090 ACETONE SOLUTION, 3, II

(Contd. on page 11)

US

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Reviewed on 01/23/2021

Trade name: G2-BOND Universal (1-PRIMER)

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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):

aluminum oxide

• TSCA (Toxic Substances Control Act):	
acetone	ACTIVE
water, distilled	ACTIVE
dimethacrylate**	ACTIVE
dimethacrylate component**	ACTIVE
photoinitiator**	ACTIVE
photoinitiator**	ACTIVE
butylated hydroxytoluene	ACTIVE
aluminum oxide	ACTIVE
synergist**	ACTIVE

· 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).

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

acetone

· EPA carcinogenic categories' legend:

EPA weight-of-evidence (WoE): official codes and categories from EPA's 1986 guidelines and unofficial, derived codes from EPA's standard hazard descriptors from 1996, 1999, and 2005 guidelines A: human carcinogen (1986)

B1: probable human carcinogen – based on limited evidence of carcinogenicity in humans (1986)

B2: probable human carcinogen - based on sufficient evidence of carcinogenicity in animals (1986)

C: possible human carcinogen (1986)

D: not classifiable as to human carcinogenicity (1986)

E: evidence of non-carcinogenicity for humans (1986)

(Contd. on page 12)

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Trade name: G2-BOND Universal (1-PRIMER)

CaH: carcinogenic to humans CBD: carcinogenic to human to be determined I: data are inadequate for an assessment of human carcinogenic potential I: inadequate information to assess carcinogenic potential KL: known/likely human carcinogen L: likely to be carcinogenic to humans NL: not likely to be carcinogenic to humans S: suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential S: suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential S: suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential S: suggestive evidence of carcinogenic potential S: suggestive evidence of carcinogenic potential C: HV (Threshold Limit Value) acetone A4 butylated hydroxytoluene A4 aluminum oxide A2 auminum oxide A2 acetone A3: confirmed animal carcinogen A3: conformed animal carcinogen A3: not classifiable as a human carcinogen A3: not classifiable as a human carcinogen A4: not classifiable as a human carcinogen A5: not classifiable as a human carcinogen A6: not classifiable as a human carcinogen A6: not classifiable as a human carcinogen A7: not classifiable as a human carcinogen A6: not classifiable as a human carcinogen A6: not classifiable as a human carcinogen A7: calved human has be devices and drugs do not require labeling according to HCS 2012. The product is classified and labeled according to the Globally Harmonized System (GHS). 4. Hazard determining components of labeling: actone dimethacrylate component** photoinitator* synergist* Hajkly fimmable liquid and vapor. Causes severe skin burns and eye damage. May damage fertily or the unborn child. May dama		(Contd. of page 11)
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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@gc.dental
Date of preparation / last revision 01/23/2021 / -
 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)
PAC: Protective Action Criterion (USA)
PACs: Protective Action Criteria (USA)
HNOC: Hazard Not Otherwise Classified (USA)
LEL: Lower Explosive Limit
UEL: Upper Explosive Limit
OSHA-Ca: Occupational Safety and Health Administration – Carcinogens or potential carcinogens regulated (USA)
NIOSH-Ca: National Institute for Occupational Safety and Health – Carcinogen List (USA)
NIOSH: National Institute for Occupational Safety and Health (USA)
TSCA: Toxic Substances Control Act (USA)
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water) (Germany)
NOEC: No Observed Effect Concentration
ADR: Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement
concerning the International Carriage of Dangerous Goods by Road)
IMDG Code: International Maritime Dangerous Goods Code
DOT: Department of Transportation (USA)
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Index
Flam. Liq. 2: Flammable liquids – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1 Bonn 19: Bonneductive tovicity – Category 18
Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· Sources
Manufacturers' MSDSs/SDSs
 OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
 PubChem (https://pubchem.ncbi.nlm.nih.gov/)
• ECHA (http://echa.europa.eu/)
EnviChem (www.echemportal.org)
(Contd. on page 14)
US

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· Notes:

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