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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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<ul> <li>1.1 Product identifier</li> <li>Trade name: <u>DURAC Plus Liquid Fill for Thermometers</u></li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Product Component</li> <li>1.3 Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: H-B Instrument – A Division of Bel-Art Products 102 West Seventh Avenue Trappe, PA 19426 USA Phone: (610) 489-5500</li> <li>1.4 Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585</li> <li>2 Hazards identification</li> <li>2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008</li> <li>Flam. Liq. 2 H225 Highly flammable liquid and vapour.</li> </ul>
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<ul> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>flame</li> </ul>
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
<ul> <li>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</li> <li>Xi; Irritant</li> </ul>
R36: Irritating to eves.
<b>i</b> F; Highly flammable
R11: Highly flammable.
R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
<ul> <li>Information concerning particular hazards for human and environment:</li> <li>The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.</li> <li>At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.</li> </ul>
<ul> <li>Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and</li> </ul>
literature data. (Contd. on page 2)

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(Contd. of page 1) The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 Signal word Danger · Hazard-determining components of labelling: acetone Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves / eye protection. Avoid breathing mist/vapours/spray. P261 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. · Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. · Hazard description: · WHMIS-symbols: B2 - Flammable liquid D2B - Toxic material causing other toxic effects · NFPA ratings (scale 0 - 4) Health = 2 Fire = 3Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH \*2 Health = \*2 FIRE <sup>3</sup> Fire = 3 REACTIVITY O Reactivity = 0 (Contd. on page 3)

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#### · HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

# · 2.3 Other hazards

#### Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

# **3** Composition/information on ingredients

#### · 3.2 Mixtures

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

<ul> <li>Dangerous components:</li> </ul>		
CAS: 67-64-1	acetone	50-100%
EINECS: 200-662-2	🗙 Xi R36; 🙀 F R11	
Index number: 606-001-00-8	R66-67	
	🔞 Flam. Liq. 2, H225	
	<ul> <li>Flam. Liq. 2, H225</li> <li>Eye Irrit. 2, H319; STOT SE 3, H336</li> </ul>	
· Additional information: For	the wording of the listed risk phrases refer to section 16	

#### Additional information: For the wording of the listed risk phrases refer to section 16.

# 4 First aid measures

#### · 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

#### • After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### • After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting: call for medical help immediately.

#### · 4.2 Most important symptoms and effects, both acute and delayed

Irritant to eves.

Slight irritant effect on skin and mucous membranes.

Dizziness

Nausea

Gastric or intestinal disorders when ingested.

Coughing

Acidosis

Disorientation

Unconsciousness

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· Hazards No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

### 5 Firefighting measures

#### 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: None.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### · Additional information

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

Use large quantities of foam as it is partially destroyed by the product.

# 6 Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

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

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 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

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

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(Contd. of page 4) Keep away from heat and direct sunlight. Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste. Avoid splashes or spray in enclosed areas. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. When heated the product forms flammable fumes. Flammable gas-air mixtures may form in empty receptacles. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store in a cool location. Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame. · Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with oxidizing and acidic materials. • Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. · 7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

#### · 8.1 Control parameters

· Ingredients v	vith limit values that require monitoring at the workplace:	
67-64-1 aceto	one	
IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm	
PEL (USA)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm	
REL (USA)	Long-term value: 590 mg/m³, 250 ppm	
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm BEI	
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm	
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm	
	rther relevant information available.	
<ul> <li>PNECs No fu</li> </ul>	rther relevant information available.	
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Ingredien	with biological limit values:
67-64-1 ac	tone
BEI (USA)	
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)
Additiona	nformation: The lists valid during the making were used as basis.
8.2 Expos	re controls
	otective equipment:
	otective and hygienic measures:
	recautionary measures are to be adhered to when handling chemicals.
	rom foodstuffs, beverages and feed.
	remove all soiled and contaminated clothing.
	s before breaks and at the end of work.
	e gases / fumes / aerosols.
	or long term contact with the skin.
	ct with the eyes.
	v protection:
	l under normal conditions of use.
	e respiratory protective device in case of insufficient ventilation.
	e respiratory protective device when aerosol or mist is formed.
Por spills, Protection	spiratory protection may be advisable.
Protection	or nanos.
Min D.	taatiya alayaa
	tective gloves
The slave	
	aterial has to be impermeable and resistant to the product/ the substance/ the preparation.
	f the glove material on consideration of the penetration times, rates of diffusion and
degradatio	
Material o Butyl rubbe	
	n rubber (Viton)
	on of the suitable gloves does not only depend on the material, but also on further marks
	varies from manufacturer to manufacturer. As the product is a preparation of seve
	the resistance of the glove material can not be calculated in advance and has therefore to
	or to the application.
	time of glove material
	reak through time has to be found out by the manufacturer of the protective gloves and has
be observe	
	e are gloves made of the following materials:
Nitrile rubb	
PVC glove	·, · · - · ·
PVA glove	
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#### • Eye protection:



Safety glasses

 Body protection: Protective work clothing
 Limitation and supervision of exposure into the environment No further relevant information available.
 Risk management measures

See Section 7 for additional information. No further relevant information available.

# 9 Physical and chemical properties

• 9.1 Information on basic physical an • General Information	d chemical properties
<ul> <li>Appearance:</li> <li>Form:</li> <li>Colour:</li> <li>Odour:</li> <li>Odour:</li> <li>Odour threshold:</li> </ul>	Liquid Blue Acetone-like Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Not Determined. 131 °F / 55 °C
· Flash point:	-4 °F / -20 °C
· Flammability (solid, gaseous):	Not applicable.
· Auto/Self-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	2,6 Vol % 13 Vol %
· Vapour pressure:	Not determined.
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0,8 g/cm <sup>3</sup> Not determined. Not determined. Not determined. (Contd. on page 8)

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Fully miscible.

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• Partition coefficient (n-octanol/water): Not determined.

 Viscosity: Dynamic: Kinematic:
 9.2 Other information

water:

Not determined. Not determined. No further relevant information available.

#### 10 Stability and reactivity

· Solubility in / Miscibility with

· 10.1 Reactivity

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
- Flammable.

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised. Reacts with acids.

Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

· Acute t
· LD/LC5
67-64-1
Oral
Dermal
Primary     on the s     on the s     on the s     Sensitiz     Additio     The pro     Classified

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Irritant

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Acute effects (acute toxicity, irritation and corrosivity): Vapours have narcotic effect.

• Repeated dose toxicity: Repeated exposure may cause skin dryness or cracking.

# **12 Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- · General notes:

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

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

# 13 Disposal considerations

#### · 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Can be reused after reprocessing.

Contact waste processors for recycling information.

#### · Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

# 14 Transport information

14.1 UN-Number
 DOT, ADR, IMDG, IATA

UN1090

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14.2 UN proper shipping name	(Contd. of page
Limited Quantity for packages gal).	less than 30 kg (66 lb) and inner packagings less than 1 L (0.
DOT	Acetone
ADR	1090 ACETONE
IMDG, IATA	ACETONE
14.3 Transport hazard class(es)	AGETONE
DOT	
•	
10MMER - SCH	
Class	3 Flammable liquids.
Label	3
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
<b>(</b>	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
DOT, ADR, IMDG, IATA	
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-D
14.7 Transport in bulk according to Ar	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D/E

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· UN "Model Regulation":

UN1090, ACETONE, 3, II

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<ul> <li>15.1 Safety, health and environmental regulations/legislation specific for United States (USA)</li> <li>SARA</li> </ul>	the substance or mixture
· 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):	
All ingredients are listed.	
· Proposition 65 (California):	
· 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)	
67-64-1 acetone	
· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
<ul> <li>TLV (Threshold Limit Value established by ACGIH)</li> </ul>	
67-64-1 acetone	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	·
None of the ingredients is listed.	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
67-64-1 acetone	

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#### • Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

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

#### **16 Other information** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **Relevant phrases** H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. R11 Highly flammable. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. R67 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 2: Flammable liquids, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com