

acc. to OSHA

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1 Identification

- · Product identifier
- · Trade name: <u>BC3LV LOW VOC BASECOAT BINDER</u>
- · Article number: BC3LV
- · Details of the supplier of the safety data sheet

 Manufacturer/Supplier: Lusid Technologies
 4725 S Camp Kearns Road Kearns, UT 84118
 USA
 www.lusidtechnologies.com

 Information department: Product safety department
 Emergency telephone number: 24 Hrs Emergency Contact: INFOTRAC 1-800-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

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

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer. STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

GHS07

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

· GHS label elements

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

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· Other hazards

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	50-100%
67-64-1	acetone	10-25%
1330-20-7	xylene	2.5-10%
	n-butyl acetate	≤2.5%
71-36-3	butan-1-ol	≤2.5%
100-41-4	ethylbenzene	≤2.5%
119-64-2	1,2,3,4-tetrahydronaphthalene	≤2.5%

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

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

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed* No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- [.] Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • **Special hazards arising from the substance or mixture**

- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

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6 Acciden	tal release measures		
· Personal µ	precautions, protective equipment and emergency procedures		
Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.			
· Environmental precautions:			
	Dilute with plenty of water.		
	w to enter sewers/ surface or ground water.		
	and material for containment and cleaning up:	- 4)	
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu ontaminated material as waste according to item 13.	St).	
	equate ventilation.		
[.] Reference	to other sections		
	n 7 for information on safe handling.		
See Sectio	n 8 for information on personal protection equipment. n 13 for disposal information.		
	Action Criteria for Chemicals		
· PAC-1:			
	acetone	200 ppm	
1330-20-7	xylene	130 ppm	
	n-butyl acetate	5 ppm	
71-36-3	butan-1-ol	60 ppm	
100-41-4	ethylbenzene	33 ppm	
119-64-2	1,2,3,4-tetrahydronaphthalene	1.6 ppm	
123-42-2	4-hydroxy-4-methylpentan-2-one	150 ppm	
108-88-3	toluene	67 ppm	
· PAC-2:			
67-64-1	acetone	3200* ppm	
1330-20-7	xylene	920* ppm	
123-86-4	n-butyl acetate	200 ppm	
71-36-3	butan-1-ol	800 ppm	
100-41-4	ethylbenzene	1100* ppm	
	1,2,3,4-tetrahydronaphthalene	17 ppm	
	4-hydroxy-4-methylpentan-2-one	350 ppm	
108-88-3	toluene	560 ppm	
· PAC-3:			
67-64-1	acetone	5700* ppm	
1330-20-7	xylene	2500* ppm	
		3000* ppm	
71-36-3	butan-1-ol	8000** ppm	
100-41-4	ethylbenzene	1800* ppm	
119-64-2	1,2,3,4-tetrahydronaphthalene	100 ррт	
		2100* ppm	
108-88-3	toluene	3700* ppm	

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7 Han	dling and storage
Ensui Open Preve I nfori Keep Prote	Iling: autions for safe handling re good ventilation/exhaustion at the workplace. and handle receptacle with care. ent formation of aerosols. mation about protection against explosions and fires: ignition sources away - Do not smoke. ct against electrostatic charges. respiratory protective device available.
 Stora Requ Infori Furth Keep Store 	litions for safe storage, including any incompatibilities age: irrements to be met by storerooms and receptacles: Store in a cool location. mation about storage in one common storage facility: Not required. are information about storage conditions: receptacle tightly sealed. in cool, dry conditions in well sealed receptacles. ific end use(s) No further relevant information available.
8 Expo	osure controls/personal protection
-	tional information about design of technical systems: No further data; see item 7.
• Comp The f recon	rol parameters ponents with limit values that require monitoring at the workplace: following constituents are the only constituents of the product which have a PEL, TLV or other nmended exposure limit. s time, the other constituents have no known exposure limits.
	l-1 acetone
	Long-term value: 2400 mg/m³, 1000 ppm
TLV	Long-term value: 590 mg/m³, 250 ppm Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI
1330-	-20-7 xylene
REL	Long-term value: 435 mg/m³, 100 ppm Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
123-8	6-4 n-butyl acetate
	Long-term value: 710 mg/m³, 150 ppm
	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
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71-30	6-3 butan-1-ol (Contd. of page 5
	Long-term value: 300 mg/m³, 100 ppm
	Ceiling limit value: 150 mg/m³, 50 ppm Skin
TLV	Long-term value: 61 mg/m³, 20 ppm
	41-4 ethylbenzene
	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 87 mg/m³, 20 ppm BEI
Ingre	edients with biological limit values:
67-64	4-1 acetone
1	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
1330	-20-7 xylene
	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
100-4	41-4 ethylbenzene
	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)
Addi	tional information: The lists that were valid during the creation were used as basis.
Pers Gene Keep Imme Wasl Store Avoic Brea In ca expo	esure controls onal protective equipment: eral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. The protective clothing separately. If contact with the eyes and skin. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longe sure use respiratory protective device that is independent of circulating air. ection of hands:
1115 UI	Protective gloves

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

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

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and General Information 	
Appearance:	
Form:	Liquid
Color:	Cloudy
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined (pH N/A in solvent coatings)
[.] Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55.8-56.6 °C (132.4-69.9 °F)
· Flash point:	<-18 °C (<-0.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	465 °C (869 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· 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 at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
· Density at 20 °C (68 °F):	1.1789 g/cm³ (9.8379 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
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Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	24.5 %	
VOC content:	9.03 %	
	106.4 g/l / 0.89 lb/gal	
Solids content:	17.7 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · 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

2B
3
2B
3
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

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

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

UN-Number		
DOT, IMDG, IATA	UN1263	
UN proper shipping name		
DOT	Paint	
IMDG, IATA	PAINT	
Transport hazard class(es) DOT		
P ADDATE LICID		
Class	3 Flammable liquids	

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Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
· Packing group · DOT, IMDG, IATA	11
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category	Warning: Flammable liquids : 33 F-E, <u>S-E</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
Limited quantities (LQ)	5L
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 1263 PAINT, 3, II

15 Regulatory information

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

· Section 35	55 (extremely hazardous substances):
None of the	e ingredients is listed.
· Section 31	3 (Specific toxic chemical listings):
1330-20-7	xylene
71-36-3	butan-1-ol
100-41-4	ethylbenzene
108-88-3	toluene
· TSCA (To)	xic Substances Control Act):
All compon	ents have the value ACTIVE.
· Hazardous	s Air Pollutants
1330-20-7	xylene
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	ethylbenzene	
108-88-3		
• Propositio		
	s known to cause cancer:	
	4-chloro-alpha,alpha,alpha-trifluorotoluene	
100-41-4	ethylbenzene	
· Chemicals	s known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
· Chemicals	s known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
· Chemicals	s known to cause developmental toxicity:	
108-88-3 1	toluene	
· Carcinoge	enic categories	
· EPA (Envi	ronmental Protection Agency)	
67-64-1	acetone	1
1330-20-7	xylene	1
71-36-3	butan-1-ol	D
100-41-4	ethylbenzene	D
108-88-3	toluene	
TLV (Thre	shold Limit Value established by ACGIH)	
67-64-1	acetone	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	e 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:
4-chloro-alpha,alpha,alpha-trifluorotoluene ethylbenzene
Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to the hearing organs through prolonged or repeated exposure.
Precautionary statements Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show	er.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen	t and easy
to do. Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ons.
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.

- · Department issuing SDS: Environment protection department.
- · Contact: Product Safety Dept.
- · Date of preparation / last revision 03/11/2020 / 3

Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Carc. 2: Carcinogenicity - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 • * Data compared to the previous version altered.