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## Safety Data Sheet acc. to OSHA HCS

Printing date 03/04/2024

Reviewed on 02/27/2024

### 1 Identification · Product identifier Trade name: LB9 GLOBALBASE BINDER NR · Article number: LB9 · Details of the supplier of the safety data sheet · Manufacturer/Supplier: GlobalStar is a product of Lusid Technologies Inc. 4725 S Camp Kearns Road Kearns, UT 84118 (801) 966-5300 info@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 Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through prolonged or repeated exposure. Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways. GHS07 H315 Causes skin irritation. Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2) - USA

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· HMIS-ratings (scale 0 - 4)



Fire = 3

#### · 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:		
108-88-3		50-100%
110-43-0	heptan-2-one	25-50%
123-86-4	n-butyl acetate	≤2.5%
1330-20-7	xylene	0-≤2.5%
100-41-4	ethylbenzene	0-≤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 eve contact: Rinse opened eve for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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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	recautions, protective equipment and emergency procedures	
Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.		
• Environmental precautions:		
Dilute with plenty of water.		
Do not allow to enter sewers/ surface or ground water.		
• <b>Methods and material for containment and cleaning up:</b> Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
	ntaminated material as waste according to section 13.	2000051).
Ensure adequate ventilation.		
Reference to other sections		
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.		
	n 13 for disposal information.	
	Action Criteria for Chemicals	
PAC-1:		
108-88-3	toluene	67 ppm
	heptan-2-one	150 ppm
	n-butyl acetate	5 ppm
1330-20-7	•	130 ppm
71-36-3	butan-1-ol	60 ppm
	ethylbenzene	33 ppm
64-17-5	ethanol	1,800 ppm
PAC-2:		
108-88-3	toluene	560 ppm
	heptan-2-one	670 ppm
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
71-36-3	butan-1-ol	800 ppm
	ethylbenzene	1100* ppn
64-17-5	ethanol	3300* ppn
PAC-3:		
108-88-3	toluene	3700* ppm
110-43-0	heptan-2-one	4000* ppm
123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
71-36-3	butan-1-ol	8000** ppm
100-41-4	ethylbenzene	1800* ppm
	ethanol	15000* ppm

## 7 Handling and storage

· Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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Open and handle receptacle with care. Prevent formation of aerosols. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

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 section 7.

#### · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:	
108-	88-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, OTO, A4	
110-4	43-0 heptan-2-one	
PEL	Long-term value: 465 mg/m³, 100 ppm	
REL	Long-term value: 465 mg/m³, 100 ppm	
TLV	Long-term value: 50 ppm	
123-	86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV	Short-term value: 150 ppm Long-term value: 50 ppm	
1330	-20-7 xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, A4	
100-4	41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
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REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3
· Ingr	edients with biological limit values:
108-	88-3 toluene
	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
1330	0-20-7 xylene
	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
	41-4 ethylbenzene
BEI	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)
	itional information: The lists that were valid during the creation were used as basis.
• Expo • Pers • Gen Keep Imm Was Store Avoi Avoi • Brea In ca	osure controls sonal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. d contact with the skin. d contact with the skin. d contact with the eyes and skin. <b>hthing equipment:</b> ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer osure use respiratory protective device that is independent of circulating air. ection of hands:
	Protective gloves
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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 chemical properties · General Information · Appearance: Form: Liquid Color: Cloudy Characteristic · Odor: · 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: 110-111 °C (230-231.8 °F) · Flash point: 4 °C (39.2 °F) · Flammability (solid, gaseous): Highly flammable. 370 °C (698 °F) · Auto igniting: · Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. • Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 1 Vol % Upper: 7 Vol % · Vapor pressure at 20 °C (68 °F): 29 hPa (21.8 mm Hg) · Vapor pressure at 50 °C (122 °F): 124 hPa (93 mm Hg) · Density at 20 °C (68 °F): 0.8856 g/cm<sup>3</sup> (7.3903 lbs/gal) · Relative density Not determined. Not determined. · Vapor density (Contd. on page 8)

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Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octand	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	≥89.3-<89.4 %	
VOC content:	≥89.29-<89.38 %	
	762.0 g/l / 6.36 lb/gal	
Solids content:	14.0 %	
Other information	No further relevant information available.	

### 10 Stability and reactivity

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

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

- 110-43-0 heptan-2-one
- Oral LD50 1,670 mg/kg (rat)

Dermal LD50 12,600 mg/kg (rabbit)

#### · Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: No 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

100 00 2 taluara	· IARC (International Agency for Research on Cancer)		
105-88-3 IOUEFIE	108-88-3	3 toluene	
1330-20-7 xylene	1330-20-7	7 xylene	

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100-41-4 ethylbenzene

64-17-5 ethanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### 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 1 (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.

- · 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	

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<ul> <li>Transport hazard class(es)</li> </ul>	
DOT	
FLAMARELE LIDUID	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
	11
· Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	
· EMS Number: · Stowage Category	<i>F-E,<u>S-E</u> B</i>
• Transport in bulk according to Annex II of	
	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
	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

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 3	13 (Specific toxic chemical listings):	(Contd. of page
108-88-3		
1330-20-7		
	butan-1-ol	
	ethylbenzene	
	xic Substances Control Act):	
•	nents have the value ACTIVE.	
Hazardou	s Air Pollutants	
108-88-3	toluene	
1330-20-7	xylene	
100-41-4	ethylbenzene	
Propositio	on 65	
· Chemical	s known to cause cancer:	
100-41-4	ethylbenzene	
Chemical	s known to cause reproductive toxicity for females:	
None of th	e ingredients is listed.	
Chemical	s known to cause reproductive toxicity for males:	
None of th	e ingredients is listed.	
Chemical	s known to cause developmental toxicity:	
108-88-3	toluene	
64-17-5	ethanol	
· Carcinoge	enic categories	
-	ironmental Protection Agency)	
108-88-3	<b>- - - - - - - - - -</b>	
1330-20-7	xylene	
71-36-3	butan-1-ol	
100-41-4	ethylbenzene	
TLV (Thre	shold Limit Value)	
108-88-3	toluene	A
1330-20-7	xylene	A
100-41-4	ethylbenzene	A
64-17-5	ethanol	F
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of th	e ingredients is listed.	

Hazard pictograms



· Signal word Danger

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· Hazard-determining components of labeling:	
toluene	
ethylbenzene	
n-butyl acetate	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Suspected of causing cancer.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate	er/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
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.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international re	
<b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried o	UT.

#### 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 03/04/2024 / 2
- Abbreviations and acronyms: ADR: Accord relatif au transport international 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 EINECS: European Inventory of Existing Commercial Chemical Substances

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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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Carcinogenicity 2: Carcinogenicity – Category 2	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Categor	iry 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - (	Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1	
* Data compared to the previous version altered.	