

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/03/2020

Reviewed on 04/03/2020

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1 Identification

- · Product identifier
- · Trade name: L10.1.K1 AIRLESS BINDER
- · Article number: L10.1.K1
- · 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. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



· Signal word Danger

• Hazard-determining components of labeling: ethanol

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· Hazard sta		(Contd. of page 1)
	liquid and vapor.	
May cause		
	ary statements	
	cial instructions before use.	ad and understand
	dle until all safety precautions have been re	
	from heat/sparks/open flames/hot surfaces iner tightly closed.	s NO SITIOKITY.
	nd container and receiving equipment.	
	ion-proof electrical/ventilating/lighting/equip	ment
	on-sparking tools.	mem.
	utionary measures against static discharge	
	ctive gloves/protective clothing/eye protect	
	r hair): Take off immediately all contamina	
	or concerned: Get medical advice/attention	
	re: Use for extinction: CO2, powder or wat	
	ell-ventilated place. Keep cool.	
Store locke		
		l/regional/national/international regulations.
	ion system:	
NFPA ratir	gs (scale 0 - 4)	
	Health = 0	
	Fire = 3	
	Reactivity = 0	
LINNIC weting	gs (scale 0 - 4)	
- HIVIIS-ratin		
) Health = $*0$	
HEALTH	Health = *0 Fire = 3	
HEALTH FIRE	Fire = 3	
HEALTH FIRE REACTIVITY	Fire = 3 Reactivity = 0	
HEALTH FIRE REACTIVITY	Fire = 3 Reactivity = 0 rds	
HEALTH FIRE REACTIVITY Other haza Results of	Fire = 3 Reactivity = 0 rds PBT and vPvB assessment	
HEALTH FIRE REACTIVITY	<i>Fire = 3</i> Reactivity = 0 rds PBT and vPvB assessment oplicable.	

· Chemical characterization: Mixtures

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

· Dangerous c	omponents:	
123-86-4 n-l	outyl acetate	10-25%
110-43-0 he	ptan-2-one	2.5-10%
112-07-2 2-1	butoxyethyl acetate	2.5-10%
1330-20-7 ху	ene	2.5-10%
100-41-4 eth	iylbenzene	≤2.5%
64-17-5 eth	nanol	≤2.5%
		1104

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4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye 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. • **For safety reasons unsuitable extinguishing agents:** Water with full jet

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- 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.
- Protective Action Criteria for Chemicals

123-86-4 n-butyl acetate	5 ppm
110-43-0 heptan-2-one	150 ppm
112-07-2 2-butoxyethyl acetate	15 ppm
1330-20-7 xylene	130 ppm
100-41-4 ethylbenzene	33 ppm
64-17-5 ethanol	1,800 ppm
67-56-1 methanol	530 ppm
122-99-6 2-Phenoxyethanol	1.5 ppm
77-58-7 dibutyltin dilaurate	1.1 mg/m³
67-63-0 propan-2-ol	400 ppm

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DAO 0.		(Contd. of page
PAC-2:	n-butyl acetate	200 ppm
	heptan-2-one	670 ppm
	2-butoxyethyl acetate	35 ppm
1330-20-7		920* ppm
	ethylbenzene	1100* ppr
64-17-5		3300* ppi
	methanol	2,100 ppr
	2-Phenoxyethanol	16 ppm
	dibutyltin dilaurate	8 mg/m ³
67-63-0	propan-2-ol	2000* ppr
PAC-3:		
	n-butyl acetate	3000* ppm
	heptan-2-one	4000* ppm
	2-butoxyethyl acetate	210 ppm
1330-20-7	xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm
64-17-5	ethanol	15000* ppm
67-56-1	methanol	7200* ppm
122-99-6	2-Phenoxyethanol	97 ppm
77-58-7	dibutyltin dilaurate	48 mg/m ³
67-63-0	propan-2-ol	12000** ppr

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

- Open and handle receptacle with care.
- 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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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	rol parameters ponents with limit values that require monitoring at the workplace:
	36-4 n-butyl acetate
	Long-term value: 710 mg/m³, 150 ppm
	Short-term value: 950 mg/m³, 200 ppm
	Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm
	Long-term value: 238 mg/m³, 50 ppm
110-4	13-0 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: 233 mg/m³, 50 ppm
112-0	07-2 2-butoxyethyl acetate
REL	Long-term value: 33 mg/m ³ , 5 ppm
TLV	Long-term value: 130 mg/m³, 20 ppm
1330	-20-7 xylene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm
	Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: 651 mg/m³, 150 ppm
	Long-term value: 434 mg/m³, 100 ppm
	BEI
	41-4 ethylbenzene
	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm
T 1 \ 1	Long-term value: 435 mg/m ³ , 100 ppm
ILV	Long-term value: 87 mg/m³, 20 ppm BEI
64-1	7-5 ethanol
-	Long-term value: 1900 mg/m³, 1000 ppm
	Long-term value: 1900 mg/m ³ , 1000 ppm
	Short-term value: 1880 mg/m³, 1000 ppm
-	edients with biological limit values:
	-20-7 xylene
	1.5 g/g creatinine Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids
100-4	11-4 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)
ľ	
	Medium: end-exhaled air
	Time: not critical Baramatar: Ethyl banzana (aami guantitativa)
4	Parameter: Ethyl benzene (semi-quantitative) (Contd. on page

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(Contd. of page 5) • **Additional information:** The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:

• General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
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:	124-128 °C (255.2-198.4 °F)	
Flash point:	27 °C (80.6 °F)	

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Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	370 °C (698 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	1.0101 g/cm³ (8.4293 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	29.8 %
VOC content:	29.83 %
	301.3 g/l / 2.51 lb/gal
Solids content:	71.2 %
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: No irritant effect.
- · on the eye: No irritating effect.

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· Sensitization: No sensitizing effects known.

• Additional toxicological information:

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

· Carcinogenic categories

•	rnational Agency for Research on Cancer)	
1330-20-7		3
100-41-4	ethylbenzene	2B
64-17-5		1
67-63-0	propan-2-ol	3
•	onal Toxicology Program)	
None of the	e 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.

14 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1263	
		(Contd. on page 9)

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	Paint PAINT
· Transport hazard class(es)	
·DOT	
	3 Flammable liquids
· Label	3
· IMDG, IATA	
	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
- Hazard identification number (Kemler code):	
· EMS Number: · Stowage Category	<i>F-E,<u>S-E</u> A</i>
	A
 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: 60 L On cargo aircraft only: 220 L
·IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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		(Contd. of page
	13 (Specific toxic chemical listings):	
	2-butoxyethyl acetate	
1330-20-7	•	
	ethylbenzene	
	methanol	
	2-Phenoxyethanol	
67-63-0	propan-2-ol	
•	xic Substances Control Act):	
All compon	ents have the value ACTIVE.	
Hazardous	s Air Pollutants	
1330-20-7	xylene	
	ethylbenzene	
67-56-1	methanol	
Propositio	n 65	
	s known to cause cancer:	
100-41-4 e	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:	
64-17-5 et	hanol	
67-56-1 m	ethanol	
Carcinoge	nic categories	
	ronmental Protection Agency)	
1330-20-7	e i ,	
	ethylbenzene	
TLV (Thre	shold Limit Value established by ACGIH)	
•	2-butoxyethyl acetate	F
1330-20-7		A
	ethylbenzene	A
64-17-5	ethanol	A
77-58-7	dibutyltin dilaurate	4
67-63-0	propan-2-ol	A

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms



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Circuit and Devices	(Contd. of page 10)
· Signal word Danger	
· Hazard-determining components of labeling:	
ethanol	
· Hazard statements	
Flammable liquid and vapor. May cause cancer.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and unders	tood
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.	
Wear protective gloves/protective clothing/eye protection/face protect	
If on skin (or hair): Take off immediately all contaminated clothing. Ri	nse skin with water/shower.
IF exposed or concerned: 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/natio	nal/international regulations
 National regulations: Additional classification according to Decree on Hazardous Material Group III (dangerous). 	erials:
 Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcino preparation. Exceptions can be made by the authorities in certain cas Chemical safety assessment: A Chemical Safety Assessment has 	ses.
6 Other information	
This information is based on our present knowledge. However, this any specific product features and shall not establish a legally valid co	
· Department issuing SDS: Environment protection department.	
Contact: Product Safety Dept.	
Date of preparation / last revision 04/03/2020 / 5	
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)	
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)	
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)	
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	
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)	

- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit BEI: Biological Exposure Limit

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Flam. Liq. 3: Flammable liquids – Category 3 Carc. 1A: Carcinogenicity – Category 1A • * **Data compared to the previous version altered.** (Contd. of page 11)

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