

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/29/2021

Reviewed on 09/29/2021

1 Identification

- · Product identifier
- Trade name: B04 FLAT MS LOW VOC ACRYLIC POLYURETHANE
- · Article number: B04
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Lyquid Specialty Coatings 176 New Highway N. Amityville, NY 11701
- 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

 \checkmark

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



GHS08 Health hazard

H351 Suspected of causing cancer.



Carc. 2

V

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 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).

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Trade name: B04 FLAT MS LOW VOC ACRYLIC POLYURETHANE

(Contd. of page 1) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 4-chloro-alpha.alpha.alpha-trifluorotoluene acetone n-butyl acetate bis(1.2.2.6.6-pentamethyl-4-piperidyl)sebacate · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. 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 regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



· 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:		
67-64-1	acetone	25-50%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	10-25%
110-43-0	heptan-2-one	2.5-10%
112926-00-8	Precipitated silica (Silica-Amorphous)	2.5-10%
123-86-4	n-butyl acetate	0-10%
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	≤2.5%

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

- 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 No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

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6 Accidenta	l release measures	
Wear protecti Environment Dilute with ple Do not allow to Methods and Absorb with li Dispose conta Ensure adequ Reference to See Section to See Section to See Section to	ecautions, protective equipment and emergency procedures ive equipment. Keep unprotected persons away. tal precautions: enty of water. to enter sewers/ surface or ground water. I material for containment and cleaning up: iquid-binding material (sand, diatomite, acid binders, universal binders, s aminated material as waste according to item 13. uate ventilation. o other sections 7 for information on safe handling. 8 for information on personal protection equipment. 13 for disposal information. ction Criteria for Chemicals	awdust).
· PAC-1:		
67-64-1	acetone	200 ppm
110-43-0	heptan-2-one	150 ppm
	Precipitated silica (Silica-Amorphous)	18 mg/m ³
123-86-4	n-butyl acetate	5 ppm
1330-20-7	xylene	130 ppm
77-58-7	dibutyltin dilaurate	1.1 mg/m³
· PAC-2:		I
67-64-1	acetone	3200* ppm
110-43-0	heptan-2-one	670 ppm
	Precipitated silica (Silica-Amorphous)	200 mg/m ³
	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
77-58-7	dibutyltin dilaurate	8 mg/m ³
· PAC-3:		1
67-64-1	acetone	5700* ppm
110-43-0	heptan-2-one	4000* ppm
	Precipitated silica (Silica-Amorphous)	1,200 mg/m ³
	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
77-58-7	dibutyltin dilaurate	48 mg/m ³

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. 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.

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Keep respiratory protective device available.

 $^{\rm c}$ 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: N	No furthe	er data; see item 7.
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- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL	Long-term	value:	2400	mg/m³,	1000 ppm
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Long-tonn	value.	2400	mg/m ,	1000 ppin

- REL Long-term value: 590 mg/m³, 250 ppm
- TLV Short-term value: 500 ppm Long-term value: 250 ppm
- A4, BEI

110-43-0 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

112926-00-8 Precipitated silica (Silica-Amorphous)

PEL 20mppcf or 80mg/m3 /%SiO2

- REL Long-term value: 6 mg/m³ See Pocket Guide App. C
- TLV TLV withdrawn

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

Ingredients with biological limit values:

67-64-1 acetone

BEI 25 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

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- 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. Avoid contact with the eyes and skin.
- · 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:	Whitish	
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 (132.4-133.9 °F)	
Flash point:	<-18 °C (<-0.4 °F)	

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Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	393 °C (739.4 °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:	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):	>0.9729-<0.9934 g/cm³ (>8.1189-<8.2899 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	58.9-<59.2 %
VOC content:	12.49-<12.87 %
	>125.2-<127.9 g/l / >1.05-<1.07 lb/gal
Solids content:	>24.6-25 %
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.

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- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

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

Irritant

Carcinogenic categories

· IARC (Intern	ational Agency for Research on Cancer)	
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	2B
112926-00-8	Precipitated silica (Silica-Amorphous)	3
1330-20-7	xylene	3
· NTP (National Toxicology Program)		
None of the ir	ngredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the in	ngredients 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 guantities 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.

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

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UN proper shipping name DOT IMDG, IATA	Paint PAINT
Transport hazard class(es)	
DOT	
RUMAGE LOO	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	11
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> B</i>
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) 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 1263 PAINT, 3, II

15 Regulatory information

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

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Section 35	5 (extremely hazardous substances):	
None of the	ingredients is listed.	
Section 31	3 (Specific toxic chemical listings):	
1330-20-7	xylene	
TSCA (Tox	ic Substances Control Act):	
•	acetone	ACTIV
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	ACTIV
110-43-0	heptan-2-one	ACTIV
123-86-4	n-butyl acetate	ACTIVI
1330-20-7	xylene	ACTIVI
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	ACTIVI
8002-74-2	Paraffin waxes and Hydrocarbon waxes	ACTIVI
77-58-7	dibutyltin dilaurate	ACTIVI
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate	ACTIVI
1330-20-7		
Proposition		
	known to cause cancer:	
	chloro-alpha,alpha,alpha-trifluorotoluene	
	known to cause reproductive toxicity for females:	
	ingredients is listed.	
	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.	
Carcinoger	nic categories	
EPA (Envir	onmental Protection Agency)	
67-64-1	acetone	
1330-20-7	xylene	
TLV (Thres	hold Limit Value)	
67-64-1	acetone	A
1330-20-7	xylene	A
	dibutyltin dilaurate	A
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77-58-7	(National Institute for Occupational Safety and Health)	

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



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(Contd. of page 10) · Signal word Danger · Hazard-determining components of labeling: 4-chloro-alpha, alpha, alpha-trifluorotoluene acetone n-butyl acetate bis(1.2.2.6.6-pentamethyl-4-piperidyl)sebacate · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eve irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. 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 regulations. · 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.

- · Date of preparation / last revision 09/29/2021 / 1
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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[·] Contact: Product Safety Dept.

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 IATA: International Air Transport Association 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 Skin Sens. 1: Skin sensitisation – Category 1 	(Contd. of page 11)
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.	
	USA -