

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 03/28/2017

Reviewed on 03/28/2017

**1 Identification**

- **Product identifier**
- **Trade name:** 0H4.044 COURSE ALUMINUM
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Lusid Technologies  
5195 West 4700 South  
KEARNS, UT 84118  
USA  
[www.globalstar.online](http://www.globalstar.online)
- **Information department:** Product safety department
- **Emergency telephone number:**  
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.

Water-react. 1    H260 In contact with water releases flammable gases, which may ignite spontaneously.



GHS08 Health hazard

Muta. 1B    H340 May cause genetic defects.

Carc. 1B    H350 May cause cancer.

STOT RE 2    H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1    H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2    H315 Causes skin irritation.

- **Label elements**

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

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· **Hazard pictograms**· **Signal word** *Danger*· **Hazard-determining components of labeling:**

Naphtha (petroleum), hydrotreated heavy ethylbenzene  
Solvent naphtha (petroleum), light arom.

· **Hazard statements**

Flammable liquid and vapor.  
In contact with water releases flammable gases, which may ignite spontaneously.  
Causes skin irritation.  
May cause genetic defects.  
May cause cancer.  
May cause damage to organs through prolonged or repeated exposure.  
May be fatal if swallowed and enters airways.

· **Precautionary statements**

Do not allow contact with water.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Handle under inert gas. Protect from moisture.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Ground/bond container and receiving equipment.  
Keep container tightly closed.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash thoroughly after handling.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Specific treatment (see on this label).  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Do NOT induce vomiting.  
In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.  
Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Store in a dry place. Store in a closed container.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 3  
Reactivity = 2

The substance demonstrates unusual reactivity with water.

- **HMIS-ratings (scale 0 - 4)**



Health = \*1  
Fire = 3  
Reactivity = 2

- **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:**

7429-90-5	aluminium powder (stabilised)	25-50%
108-65-6	2-methoxy-1-methylethyl acetate	10-25%
1330-20-7	xylene	10-25%
107-98-2	1-methoxy-2-propanol	10-25%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-25%
123-86-4	n-butyl acetate	2.5-10%
64742-95-6	Solvent naphtha (petroleum), light arom.	2.5-10%
100-41-4	ethylbenzene	2.5-10%

## 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
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.
- **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.

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## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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.  
Do not flush with water or aqueous cleansing agents
- **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**

### · PAC-1:

108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
1330-20-7	xylene	130 ppm
107-98-2	1-methoxy-2-propanol	100 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	5 ppm
100-41-4	ethylbenzene	33 ppm
71-36-3	butan-1-ol	60 ppm

### · PAC-2:

108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
1330-20-7	xylene	920* ppm
107-98-2	1-methoxy-2-propanol	160 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	200 ppm
100-41-4	ethylbenzene	1100* ppm
71-36-3	butan-1-ol	800 ppm

### · PAC-3:

108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
1330-20-7	xylene	2500* ppm
107-98-2	1-methoxy-2-propanol	660 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	40,000 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	3000* ppm

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100-41-4	ethylbenzene	1800* ppm
71-36-3	butan-1-ol	8000** ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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.  
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 item 7.
- **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.

### 108-65-6 2-methoxy-1-methylethyl acetate

WEEL Long-term value: 50 ppm

### 1330-20-7 xylene

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppmREL Short-term value: 655 mg/m<sup>3</sup>, 150 ppmLong-term value: 435 mg/m<sup>3</sup>, 100 ppmTLV Short-term value: 651 mg/m<sup>3</sup>, 150 ppmLong-term value: 434 mg/m<sup>3</sup>, 100 ppm

BEI

### 107-98-2 1-methoxy-2-propanol

REL Short-term value: 540 mg/m<sup>3</sup>, 150 ppmLong-term value: 360 mg/m<sup>3</sup>, 100 ppmTLV Short-term value: 369 mg/m<sup>3</sup>, 100 ppmLong-term value: 184 mg/m<sup>3</sup>, 50 ppm

### 123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppmREL Short-term value: 950 mg/m<sup>3</sup>, 200 ppmLong-term value: 710 mg/m<sup>3</sup>, 150 ppmTLV Short-term value: 712 mg/m<sup>3</sup>, 150 ppmLong-term value: 238 mg/m<sup>3</sup>, 50 ppm

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**100-41-4 ethylbenzene**

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI

· **Ingredients with biological limit values:****1330-20-7 xylene**

BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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**100-41-4 ethylbenzene**

BEI	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)

· **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.  
Avoid contact with the skin.  
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.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Liquid
Color:	Silver-colored
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:	120.3 °C (249 °F)

· Flash point: 27 °C (81 °F)

· Flammability (solid, gaseous): Not applicable.

## · Ignition temperature:

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:	Not determined.
Upper:	Not determined.

· Vapor pressure: Not determined.

· Density at 20 °C (68 °F): 1.01 g/cm<sup>3</sup> (8.428 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/water): Not determined.

## · Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

## · Solvent content:

Organic solvents: 70 %

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**VOC content:** 70 %  
 Coating VOC 651.1 g/l / 5.43 lb/gl  
 Material VOC 651.1 g/l / 5.43 lb/gl

**Solids content:** 30.0 %  
**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** Contact with water releases flammable gases.
- **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:**

### 1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

### 64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **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  
 The product can cause inheritable damage.

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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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.

## 14 Transport information

· **UN-Number**  
· **DOT, IMDG, IATA** UN1263

· **UN proper shipping name**  
· **DOT** Paint  
· **IMDG, IATA** PAINT

· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids

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· **Label** 3· **IMDG, IATA**· **Class** 3 Flammable liquids· **Label** 3· **Packing group**· **DOT, IMDG, IATA** III· **Environmental hazards:** Not applicable.· **Special precautions for user** Warning: Flammable liquids· **Danger code (Kemler):** 39· **EMS Number:** F-E, S-E· **Stowage Category** 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

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7 xylene

100-41-4 ethylbenzene

71-36-3 butan-1-ol

· **TSCA (Toxic Substances Control Act):**

108-65-6 2-methoxy-1-methylethyl acetate

1330-20-7 xylene

107-98-2 1-methoxy-2-propanol

64742-48-9 Naphtha (petroleum), hydrotreated heavy

123-86-4 n-butyl acetate

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64742-95-6	Solvent naphtha (petroleum), light arom.
100-41-4	ethylbenzene
71-36-3	butan-1-ol

· **Proposition 65**· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene
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· **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)**

1330-20-7	xylene	I
100-41-4	ethylbenzene	D
71-36-3	butan-1-ol	D

· **TLV (Threshold Limit Value established by ACGIH)**

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

· **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**

GHS02 GHS07 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

Naphtha (petroleum), hydrotreated heavy

ethylbenzene

Solvent naphtha (petroleum), light arom.

· **Hazard statements**

Flammable liquid and vapor.

In contact with water releases flammable gases, which may ignite spontaneously.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Do not allow contact with water.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Handle under inert gas. Protect from moisture.

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- Use explosion-proof electrical/ventilating/lighting/equipment.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Ground/bond container and receiving equipment.  
 Keep container tightly closed.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wash thoroughly after handling.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Specific treatment (see on this label).  
 IF exposed or concerned: Get medical advice/attention.  
 If skin irritation occurs: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.  
 Do NOT induce vomiting.  
 In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.  
 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up.  
 Store in a well-ventilated place. Keep cool.  
 Store in a dry place. Store in a closed container.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **National regulations:**
  - **Additional classification according to Decree on Hazardous Materials:**  
 Carcinogenic hazardous material group III (dangerous).
  - **Information about limitation of use:**  
 Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.  
 Exceptions can be made by the authorities in certain cases.
  - **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** 03/28/2017 / -
- **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)  
 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

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*OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flam. Liq. 3: Flammable liquids – Category 3**Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Muta. 1B: Germ cell mutagenicity – Category 1B**Carc. 1B: Carcinogenicity – Category 1B**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Asp. Tox. 1: Aspiration hazard – Category 1*

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