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1 Identification

- · Product identifier
- · Trade name: EX405 FAST DRY CATALYST
- · Article number: EX405
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Lusid Technologies
 4725 S Camp Kearns Road Kearns, UT 840118
- 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



Flammable Liquids 2 H225 Highly flammable liquid and vapor.

GHS08 H

GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

GHS07

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

· Label elements

· GHS label elements

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

Hazard pictograms



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| Signal word | Danger | (Contd. of page |
|---------------|-----------------------------|---|
| • | rmining components o | flaboling |
| | a,alpha,alpha-trifluorotol | |
| Hazard stat | | uene |
| | able liquid and vapor. | |
| Causes skin | | |
| | ous eye irritation. | |
| | f causing cancer. | |
| | ry statements | |
| | al instructions before use | |
| | | ons have been read and understood. |
| | | mes/hot surfaces No smoking. |
| | er tightly closed. | mes/not surfaces No smoking. |
| | l container and receiving | equipment |
| | n-proof electrical/ventilat | |
| | sparking tools. | ng/ngnting/equipment. |
| | tionary measures agains | t static discharge |
| | ghly after handling. | i static discharge. |
| | | thing/eye protection/face protection. |
| | | ely all contaminated clothing. Rinse skin with water/shower. |
| | | r for several minutes. Remove contact lenses, if present and ea |
| to do. Contir | | i loi several minutes. Nemove contact lenses, il present and ea |
| | or concerned: Get medica | al advice/attention |
| | ment (see on this label). | |
| | taminated clothing and w | rash it hefore reuse |
| | on occurs: Get medical a | |
| | n persists: Get medical a | |
| | | /ater spray to extinguish. |
| | ell-ventilated place. Keep | |
| Store locked | | 0001. |
| | | rdance with local/regional/national/international regulations. |
| Classificati | | |
| | is (scale 0 - 4) | |
| | 3 (Scale 0 - 4) | |
| | Health = 2 | |
| 3 | Fire = 3 | |
| | Reactivity = 0 | |
| | | |
| HMIS-rating | s (scale 0 - 4) | |
| HEALTH 2 | Health = 2 | |
| FIRE 3 | Fire = 3 | |
| REACTIVITY 0 | Reactivity = 0 | |
| | - | |
| Other hazar | | |
| Doculto of | BT and vPvB assessm | ent |
| | nlicahle | |
| PBT: Not ap | | |
| | | |

· Chemical characterization: Mixtures

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

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· Dangerous components:

| Dangerous components. | | |
|-----------------------|---|---------|
| 110-43-0 | heptan-2-one | 10-25% |
| 98-56-6 | 4-chloro-alpha,alpha,alpha-trifluorotoluene | 10-25% |
| 67-64-1 | acetone | 10-25% |
| 112926-00-8 | Precipitated silica (Silica-Amorphous) | 2.5-10% |

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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 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: Dilute with plenty of water.
- 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 section 13. Ensure adequate ventilation.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal proto
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1:

25036-25-3 phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) 12 mg/m³ bis(4,1-phenyleneoxymethylene)]bis[oxirane]

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| | (| Contd. of page 3 |
|-------------|---|-------------------------|
| 110-43-0 | heptan-2-one | 150 ppm |
| 67-64-1 | acetone | 200 ppm |
| 112926-00-8 | Precipitated silica (Silica-Amorphous) | 18 mg/m³ |
| · PAC-2: | | |
| 25036-25-3 | phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1 methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | - 130 mg/m³ |
| 110-43-0 | heptan-2-one | 670 ppm |
| 67-64-1 | acetone | 3200* ppm |
| 112926-00-8 | Precipitated silica (Silica-Amorphous) | 200 mg/m³ |
| PAC-3: | | |
| 25036-25-3 | phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1- methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] | 790 mg/m³ |
| 110-43-0 | heptan-2-one | 4000* ppm |
| 67-64-1 | acetone | 5700* ppm |
| 112926-00-8 | Precipitated silica (Silica-Amorphous) | 1,200 mg/m ³ |

7 Handling and storage

- · Handling:
- · Precautions for safe handling 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: 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
- 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 remaining constituent has no known exposure limits.

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

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to be observed.

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|--|--|
| 67-64- | 1 acetone |
| PEL L | ong-term value: 2400 mg/m³, 1000 ppm |
| REL L | ong-term value: 590 mg/m³, 250 ppm |
| TLV S | Short-term value: 500 ppm |
| | Long-term value: 250 ppm |
| | A4, BE/ |
| | 6-00-8 Precipitated silica (Silica-Amorphous) |
| | 20mppcf or 80mg/m3 /%SiO2 |
| | Long-term value: 6 mg/m ³ |
| | See Pocket Guide App. C |
| | TLV withdrawn |
| | dients with biological limit values: |
| | 1 acetone |
| | 5 mg/L |
| | ledium: urine ïme: end of shift |
| | Parameter: Acetone (nonspecific) |
| | ional information: The lists that were valid during the creation were used as basis. |
| · Gener Keep a Immed Wash Store Avoid · Breati | nal protective equipment: ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. contact with the eyes and skin. hing equipment: Not required. ction of hands: |
| MAS - | Protective gloves |
| Due to prepar Select degrad Mater The se quality substa be che | <i>ial of gloves</i> election of the suitable gloves does not only depend on the material, but also on further marks of <i>y</i> and varies from manufacturer to manufacturer. As the product is a preparation of several ances, the resistance of the glove material can not be calculated in advance and has therefore to becked prior to the application. |
| The ex | ration time of glove material xact break through time has to be found out by the manufacturer of the protective gloves and has 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: 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) · Flammability (solid, gaseous): Highly flammable. · Auto igniting: 465 °C (869 °F) Not determined. · Decomposition temperature: · 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 % 13 Vol % Upper:

· Vapor pressure at 20 °C (68 °F): 233 hPa (174.8 mm Hg) 800 hPa (600 mm Hg) · Vapor pressure at 50 °C (122 °F): 1.0931 g/cm³ (9.1219 lbs/gal) · Density at 20 °C (68 °F): Not determined. · Relative density · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not determined. Kinematic: Not determined. · Solvent content: Organic solvents: 38.2 %

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| | (Contd. of page 6) |
|--|-----------------------------------|
| 20.78 % | |
| 227.1 g/l / 1.90 lb/gal | |
| 49.7 % | |
| No further relevant information available. | |
| | 227.1 g/l / 1.90 lb/gal 49.7 % |

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: 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

| • | ational Agency for Research on Cancer) | |
|---------------|---|----|
| 98-56-6 | 4-chloro-alpha,alpha,alpha-trifluorotoluene | 2B |
| 112926-00-8 | Precipitated silica (Silica-Amorphous) | 3 |
| · NTP (Nation | al Toxicology Program) | |
| None of the i | ngredients is listed. | |
| · OSHA-Ca (O | ccupational Safety & Health Administration) | |
| None of the i | ngradianta ia liatad | |

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.

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- · 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 | | |
| PROMOLE COCH | | |
| Class Label | 3 Flammable liquids 3 | |
| · IMDG, IATA | | |
| | | |
| Class | 3 Flammable liquids | |
| Label | 3 | |
| Packing group | | |
| DOT, IMDG, IATA | 11 | |

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|--|---|
| · Environmental hazards: · Marine pollutant: | No |
| Special precautions for user Hazard identification number (Kemler code EMS Number: Stowage Category | Warning: Flammable liquids e): 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) Excepted quantities (EQ) | 5L 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

| | ingredients is listed. | |
|-------------|---|-------|
| Section 313 | (Specific toxic chemical listings): | |
| None of the | ingredients is listed. | |
| TSCA (Toxi | c Substances Control Act): | |
| 25036-25-3 | phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane] | ACTIV |
| 110-43-0 | heptan-2-one | ACTIV |
| 98-56-6 | 4-chloro-alpha,alpha,alpha-trifluorotoluene | ACTIV |
| 67-64-1 | acetone | ACTIV |
| 8002-74-2 | Paraffin waxes and Hydrocarbon waxes | ACTIV |
| Hazardous | Air Pollutants | |
| None of the | ingredients is listed. | |
| Proposition | 65 | |
| Chemicals | known to cause cancer: | |
| 98-56-6 4-c | hloro-alpha,alpha,alpha-trifluorotoluene | |
| Chemicals | known to cause reproductive toxicity for females: | |
| None of the | ingredients is listed. | |
| Chemicals | known to cause reproductive toxicity for males: | |
| | ingredients is listed. | |

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- · Chemicals known to cause developmental toxicity:
- None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

67-64-1 acetone

• TLV (Threshold Limit Value)

67-64-1 acetone

· 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



· Signal word Danger

Hazard-determining components of labeling: 4-chloro-alpha,alpha,alpha-trifluorotoluene Hazard statements

Highly flammable liquid and vapor. Causes skin irritation.

Causes serious eye irritation. Suspected of causing cancer.

- 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.

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.

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/shower.

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.

Specific treatment (see on this label).

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 CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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· 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 05/22/2023

· Abbreviations and acronyms: 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 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 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity – Category 2 * * Data compared to the previous version altered.

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