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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/10/2020 Reviewed on 04/17/2019

#### 1 Identification

· Product identifier

· Trade name: GTS40 PREMIUM PRODUCTION CLEAR

· Article number: GTS40

· 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. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT RE 1 H372-H373 Causes damage to the central nervous system through prolonged or

repeated exposure. May cause damage to the hearing organs through

prolonged or repeated exposure.

· Label elements

· GHS label elements

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

· Hazard pictograms





GHS02 GHS08

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Trade name: GTS40 PREMIUM PRODUCTION CLEAR

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· Signal word Danger

#### · Hazard-determining components of labeling:

Stoddard solvent

ethylbenzene

Solvent naphtha (petroleum), light aliph.

#### · Hazard statements

Highly flammable liquid and vapor.

May cause genetic defects.

May cause cancer.

Causes damage to the central nervous system through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

#### · 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.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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 exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

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/national/international regulations.

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



Health = 0 Fire = 3 Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



Health = \*0 Fire = 3

REACTIVITY 0 Reactivity = 0

- · 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.

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· Dangerous	s components:	
110-43-0	heptan-2-one	10-25%
123-86-4	n-butyl acetate	2.5-10%
67-64-1	acetone	2.5-10%
1330-20-7	zylene	2.5-10%
108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%
100-41-4	t ethylbenzene	2.5-10%
8052-41-3	Stoddard solvent	≤2.5%
64742-89-8	Solvent naphtha (petroleum), light aliph.	≤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: 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

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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.

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#### · 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:			
110-43-0	heptan-2-one	150 ppm	
123-86-4	n-butyl acetate	5 ppm	
67-64-1	acetone	200 ppm	
1330-20-7	xylene	130 ppm	
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm	
100-41-4	ethylbenzene	33 ppm	
8052-41-3	Stoddard solvent	300 mg/m	
122-99-6	2-Phenoxyethanol	1.5 ppm	
77-58-7	dibutyltin dilaurate	1.1 mg/m	
PAC-2:		·	
110-43-0	heptan-2-one	670 ppm	
123-86-4	n-butyl acetate	200 ppm	
67-64-1	acetone	3200* ppm	
1330-20-7	xylene	920* ppm	
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm	
100-41-4	ethylbenzene	1100* ppm	
8052-41-3	Stoddard solvent	1,800 mg/m	
122-99-6	2-Phenoxyethanol 16		
77-58-7	dibutyltin dilaurate 8		
PAC-3:			
110-43-0	heptan-2-one	4000* ppm	
123-86-4	n-butyl acetate	3000* ppm	
67-64-1	acetone	5700* ppm	
1330-20-7	xylene	2500* ppm	
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm	
100-41-4	ethylbenzene	1800* ppm	
8052-41-3	Stoddard solvent	29500** mg/m	
122-99-6	2-Phenoxyethanol	97 ppm	
77-58-7	dibutyltin dilaurate	48 mg/m³	

## 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.

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- · 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 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 remaining constituent has no known exposure limits.

110-4	3-0 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	
123-8	6-4 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: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm	
67-64	-1 acetone	
PEL	Long-term value: 2400 mg/m³, 1000 ppm	
REL	Long-term value: 590 mg/m³, 250 ppm	
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI	
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	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI	
108-6	5-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm	
100-4	1-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
	(Contd. on	ра

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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: 87 mg/m³, 20 ppm

BEI

#### 8052-41-3 Stoddard solvent

PEL Long-term value: 2900 mg/m³, 500 ppm

REL Long-term value: 350 mg/m³

Ceiling limit value: 1800\* mg/m³

\*15-min

TLV Long-term value: 525 mg/m³, 100 ppm

### · Ingredients with biological limit values:

#### 67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

#### 1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

#### 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.

#### · 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.

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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 pl	hysical and	chemical	properties
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· General Information

· 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:55 °C (131 °F)

· Flash point: -17 °C (1.4 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 315 °C (599 °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 Vol % **Upper:** 5.5 Vol %

· Vapor pressure at 20 °C (68 °F): 3.5 hPa (2.6 mm Hg)

Density at 20 °C (68 °F): 0.957 g/cm³ (7.9862 lbs/gal)

Relative density
Vapor density

Not determined.

Evaporation rate
Not determined.
Not determined.

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· 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:	56.1 %	
VOC content:	49.58 %	
	473.4 g/l / 3.95 lb/gal	
Solids content:	45.5 %	
· 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 t	· Acute toxicity:			
· LD/LC5	· LD/LC50 values that are relevant for classification:			
110-43-	110-43-0 heptan-2-one			
Oral	LD50	1,670 mg/kg (rat)		
Dermal	LD50	12,600 mg/kg (rabbit)		
1330-20	1330-20-7 xylene			
Oral	LD50	4,300 mg/kg (rat)		
Dermal	LD50	2,000 mg/kg (rabbit)		

- · Primary irritant effect:
- · on the skin: No irritant effect.
- 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:

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency	for Research on C	Cancer)
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1330-20-7 xylene 3

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100-41-4 ethylbenzene

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2B

· 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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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(Contd. of page 9) 3 ·Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, IMDG, IATA II· Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids Danger code (Kemler): · EMS Number: F-E,S-E · Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L · IMDG 5L · Limited quantities (LQ) 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

· Sara		
Section 35	5 (extremely hazardous substances):	
None of the	e ingredients is listed.	
Section 31	3 (Specific toxic chemical listings):	
1330-20-7	xylene	
100-41-4	ethylbenzene	
122-99-6	2-Phenoxyethanol	
TSCA (Tox	ric Substances Control Act):	
110-43-0	heptan-2-one	ACTIVE
123-86-4	n-butyl acetate	ACTIVE
67-64-1	acetone	ACTIVE
1330-20-7	xylene	ACTIVE
	(Contd.	on page 11

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108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
	ethylbenzene	ACTIVE
8052-41-3	Stoddard solvent	ACTIVE
64742-89-8	Solvent naphtha (petroleum), light aliph.	ACTIVE
122-99-6	2-Phenoxyethanol	ACTIVE
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	ACTIVE
77-58-7	dibutyltin dilaurate	ACTIVE
· Hazardous	Air Pollutants	<u>'</u>
1330-20-7	xylene	
100-41-4	ethylbenzene	
Proposition	1 65	
· Chemicals	known to cause cancer:	
100-41-4 e	thylbenzene	
· 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.	
· Carcinoger	nic categories	
_	onmental Protection Agency)	
67-64-1	<del> </del>	1
1330-20-7		1
	ethylbenzene	D
	hold Limit Value established by ACGIH)	
67-64-1	- · · · · · · · · · · · · · · · · · · ·	A4
1330-20-7	xylene	A4
	ethylbenzene	A3
	dibutyltin dilaurate	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
ou		

#### · GHS label elements

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

### · Hazard pictograms

GHS02 GHS02, GHS08

None of the ingredients is listed.

GHS08

· Signal word Danger

### · Hazard-determining components of labeling:

Stoddard solvent

ethylbenzene

Solvent naphtha (petroleum), light aliph.

#### · Hazard statements

Highly flammable liquid and vapor.

May cause genetic defects.

May cause cancer.

Causes damage to the central nervous system through prolonged or repeated exposure. May cause damage to the hearing organs through prolonged or repeated exposure.

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#### · 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.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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 exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

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/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 04/17/2019 / 3
- · 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

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

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Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

\* Data compared to the previous version altered.

USA