Printing date 07/20/2015

Reviewed on 05/27/2015

### **1** Identification

- · Product identifier
- · Trade name: GR-13
- · Article number: GR-13
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Chemical Consultants Inc. 1850 Wild Turkey Circle Corona, CA 92880 USA +1 (951) 735-5511 ncollins@ccidom.com

• 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.



GHS08 Health hazard

- Carc. 2 H351 Suspected of causing cancer.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory irritation

· 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: Solvent naphtha (petroleum), light arom.
2-butoxyethanol

(Contd. on page 2)

<sup>-</sup> US

Printing date 07/20/2015

Reviewed on 05/27/2015

#### Trade name: GR-13

	(Contd. of page 1)
1,2,4-trimethylbenzene (contaminant)	
mesitylene (contaminant)	
Hazard statements	
Flammable liquid and vapor.	
Harmful in contact with skin or if inhaled.	
Causes skin irritation.	
Causes serious eye irritation.	
Suspected of causing cancer.	
May cause respiratory irritation.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Do not handle until all safety precautions have been read and understood.	
Ground/bond container and receiving equipment.	
Keep away from flames and hot surfaces. – No smoking.	
Obtain special instructions before use.	
Take precautionary measures against static discharge.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Use only outdoors or in a well-ventilated area.	
Wash thoroughly after handling.	
Wear protective gloves / eye protection / face protection.	
Wear protective gloves / protective clothing.	
Call a poison center/doctor if you feel unwell.	
Do NOT induce vomiting.	
If swallowed: Immediately call a poison center/doctor.	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with wate	er/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present an	nd easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
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)	
$\frac{1}{2}$ Health = 1	
Fire = 2	
1  0  Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 1 $Health = 1$	
FIRE 2 $Fire = 2$	
$\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$	
	Contd. on page 3)

(Contd. on page 3)

(Contd. of page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/20/2015

Reviewed on 05/27/2015

#### Trade name: GR-13

· Other hazards

· Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

#### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description:

Component names which have the word (contaminant) are constituents in Aromatic hydrocarbon ingredients and are an integral part of the ingredient and cannot be separated. The percentage listed for the contaminant is as contained in the Hydrocarbon ingredient. Example: 100% hydrocarbon, 10% Contaminant A, 3% Contaminant B

· Dangerous components:		
64742-95-6	Solvent naphtha (petroleum), light arom.	20-40%
	2-butoxyethanol	10-20%
95-63-6	1,2,4-trimethylbenzene (contaminant)	10-20%
	4-hydroxy-4-methylpentan-2-one	1-10%
108-67-8	mesitylene (contaminant)	1-5%
	Nonylphenol ethoxylate	1-5%
	dimethyl succinate	1-5%
98-82-8	cumene (contaminant)	<1%

#### **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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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, sand, extinguishing powder. Do not use water.
- $\cdot$  For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 4)

US

Printing date 07/20/2015

Reviewed on 05/27/2015

Trade name: GR-13

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

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures* Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: For large spills: 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.

## 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- 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.
- 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:

111-1	111-76-2 2-butoxyethanol		
PEL	Long-term value: 240 mg/m³, 50 ppm Skin		
REL	Long-term value: 24 mg/m³, 5 ppm Skin		
TLV	Long-term value: 97 mg/m³, 20 ppm BEI		
95-63-6 1,2,4-trimethylbenzene (contaminant)			
REL	REL Long-term value: 125 mg/m <sup>3</sup> , 25 ppm		

(Contd. on page 5)

(Contd. of page 3)

Printing date 07/20/2015

Reviewed on 05/27/2015

#### Trade name: GR-13

(Contd. of page 4)
TLV Long-term value: 123 mg/m <sup>3</sup> , 25 ppm
123-42-2 4-hydroxy-4-methylpentan-2-one
PEL Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
REL Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
TLV Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
108-67-8 mesitylene (contaminant)
REL Long-term value: 125 mg/m <sup>3</sup> , 25 ppm
TLV Long-term value: 123 mg/m <sup>3</sup> , 25 ppm
· Ingredients with biological limit values:
111-76-2 2-butoxyethanol
BEI 200 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: Butoxyacetic acid with hydrolysis

• 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. 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

(Contd. on page 6)

Printing date 07/20/2015

Reviewed on 05/27/2015

Trade name: GR-13

(Contd. of page 5)

Physical and chemical proper	ties	
Information on basic physical and c	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color: Odor:	According to product specification Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	107 °C (225 °F)	
Flash point:	48 °C (118 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	240 °C (464 °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:	0.7 Vol %	
Upper:	10.6 Vol %	
Vapor pressure at 20 °C (68 °F):	5 hPa (4 mm Hg)	
Density at 20 °C (68 °F):	0.898 g/cm <sup>3</sup> (7.494 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	r <b>):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC content:	728.0 g/l / 6.08 lb/gl	
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.

(Contd. on page 7)

<sup>-</sup> US

(Contd. of page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 07/20/2015

Reviewed on 05/27/2015

Trade name: GR-13

· 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:

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)

111-76-2 2-butoxyethanol

Oral LD50 1480 mg/kg (rat)

Dermal LD50 400 mg/kg (rab)

95-63-6 1,2,4-trimethylbenzene (contaminant)

*Oral LD50 5000 mg/kg (rat)* 

#### · 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: Harmful

Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

98-82-8 *cumene* (contaminant)

#### · 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.
- · Ecotoxical effects:
- Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.

(Contd. on page 8)

R

further relevant information available

US

Printing date 07/20/2015

Reviewed on 05/27/2015

Trade name: GR-13

(Contd. of page 7)

Toxic for aquatic organisms

- · 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:

Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

- · Uncleaned packagings:
- · Recommendation:

Dispose of content and/or container in accordance with local, regional, national and/or international regulations

· UN-Number	
·DOT	NOT DOT REGULATED FOR DOMESTIC GROUND TRANSPORTATION
· IMDG, IATA	UN1993
· UN proper shipping name	
· IMDG	FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene, 1 propoxypropan-2-ol), MARINE POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene, 1 propoxypropan-2-ol)
· Transport hazard class(es)	
· IMDG	
· Class · Label	3 Flammable liquids 3
·IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· IMDG, IATA	111
· Environmental hazards:	Product contains environmentally hazardous substances: Solver naphtha (petroleum), light arom.

Printing date 07/20/2015

Reviewed on 05/27/2015

Trade name: GR-13

	(Contd. of page	
· Marine pollutant:	No	
-	Symbol (fish and tree)	
· Special precautions for user	Warning: Flammable liquids	
· Danger code (Kemler):	30	
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>	
• Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
· IMDG		
$\cdot$ Limited quantities (LQ)	5L	
· Excepted quantities ( $\widetilde{E}Q$ )	Code: E1	
· · · · · · ·	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (1,2,4 TRIMETHYLBENZENE, 1-PROPOXYPROPAN-2-OL), 3, II	
	ENVIRONMENTALLY HAZARDOUS	

## **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.

· Section 313 (Specific toxic chemical listings):

111-76-2 2-butoxyethanol

95-63-6 1,2,4-trimethylbenzene (contaminant)

1330-20-7 xylene (contaminant)

98-82-8 cumene (contaminant)

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

All ingredients are listed.

· Proposition 65

• Chemicals known to cause cancer:

This product contains a chemical known to the state of California to cause cancer

98-82-8 *cumene* (contaminant)

· 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)

111-76-2 2-butoxyethanol

1330-20-7 xylene (contaminant)

(Contd. on page 10)

NL

- US

Printing date 07/20/2015

Reviewed on 05/27/2015

## Trade name: GR-13

	(Contd. of page 9)
98-82-8 cumene (contaminant)	D, CBD
• TLV (Threshold Limit Value established by ACGIH)	
111-76-2 2-butoxyethanol	A3
1330-20-7 xylene (contaminant)	A4
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 Ha	armonized System (GHS).
Hazard pictograms	- 5 ( )
GHS02 GHS07 GHS08	
Signal word Danger	
-	
<i>Hazard-determining components of labeling:</i> Solvent naphtha (petroleum), light arom.	
2-butoxyethanol	
1,2,4-trimethylbenzene (contaminant)	
mesitylene (contaminant)	
Hazard statements	
Flammable liquid and vapor.	
Harmful in contact with skin or if inhaled.	
Causes skin irritation.	
Causes skill in nation. Causes serious eye irritation.	
Suspected of causing cancer.	
May cause respiratory irritation.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Do not handle until all safety precautions have been read and understood.	
Ground/bond container and receiving equipment.	
Keep away from flames and hot surfaces. – No smoking.	
Obtain special instructions before use.	
Take precautionary measures against static discharge.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Use only outdoors or in a well-ventilated area.	
Wash thoroughly after handling.	
Wear protective gloves / eye protection / face protection.	
Wear protective gloves / protective clothing.	
Call a poison center/doctor if you feel unwell.	
Do NOT induce vomiting.	
If swallowed: Immediately call a poison center/doctor.	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse s	
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for	
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.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	(Contd. on page 11)

(Contd. on page 11)

US

Printing date 07/20/2015

Reviewed on 05/27/2015

#### Trade name: GR-13

(Contd. of page 10)

Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. 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 07/20/2015 / -

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

<sup>·</sup> Contact: Mr. Collins