Printing date 09/16/2015

Reviewed on 07/16/2015

1 Identification

- · Product identifier
- · Trade name: ProChem® 480G
- · 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

Muta. 1B	H340 May cause genetic defects.
Care 1R	H350 May cause cancer

- Carc. 1B H350 May cause cancer.
- *Repr. 1B* H360 May damage fertility or the unborn child.
- STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



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.

· 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. N-methyl-2-pyrrolidone

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	(Contd. of page 1)
citrus terpene	
Stoddard solven	<i>it</i>
· Hazard stateme	
	le liquid and vapor.
H315 Causes sk	
	rious eye irritation.
	e an allergic skin reaction.
•	e genetic defects.
H350 May caus	
	age fertility or the unborn child.
	amage to the central nervous system through prolonged or repeated exposure.
	ital if swallowed and enters airways.
· Precautionary s	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
<i>P305+P351+P</i> .	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification s	
· NFPA ratings ($(scale \ 0 - 4)$
H	Iealth = 1
F	iire = 2
	Peactivity = 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:

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 Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
	2-methoxy-1-methylethyl acetate	30-50%
	1-methoxy-2-propanol	10-20%
	Solvent naphtha (petroleum), light arom.	1-10%
	-50-4 N-methyl-2-pyrrolidone	
95-63-6	3-6 1,2,4-trimethylbenzene (contaminant)	
	11-3 Stoddard solvent	
	04266-47-4 citrus terpene	
108-67-8	108-67-8 mesitylene (contaminant)	
98-82-8	cumene (contaminant)	<1%

4 First-aid measures

· Description of first aid measures

• After inhalation:

Supply fresh air; consult doctor in case of complaints.

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.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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Safety Data Sheet acc. to OSHA HCS

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- · 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: For large spills: Do not allow to enter sewers/ surface or ground water.
- \cdot 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. 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 from heat.
 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Protect from heat and direct sunlight.
- 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:
- 108-65-6 2-methoxy-1-methylethyl acetate
- WEEL Long-term value: 50 ppm

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107.0	(Contd. of page
	8-2 1-methoxy-2-propanol
REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm
ILV	Long-term value: 184 mg/m ³ , 50 ppm
872-5	0-4 N-methyl-2-pyrrolidone
	L Long-term value: 10 ppm
WEEI	Skin
95-63	-6 1,2,4-trimethylbenzene (contaminant)
REL	Long-term value: 125 mg/m ³ , 25 ppm
TLV	Long-term value: 123 mg/m ³ , 25 ppm
8052-	41-3 Stoddard solvent
PEL	Long-term value: 2900 mg/m ³ , 500 ppm
REL	Long-term value: 350 ppm
	Ceiling limit value: 1800* mg/m ³
	*15-min
TLV	Long-term value: 525 mg/m ³ , 100 ppm
108-6	7-8 mesitylene (contaminant)
REL	Long-term value: 125 mg/m ³ , 25 ppm
TLV	Long-term value: 123 mg/m ³ , 25 ppm
Ingre	dients with biological limit values:
872-5	0-4 N-methyl-2-pyrrolidone
BEI	100 mg/L
	Medium: urine
	Fime: end of shift
	Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone
Addit	ional information: The lists that were valid during the creation were used as basis.
	sure controls
	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.
	hing equipment:
In cas	e of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	atory protective device that is independent of circulating air.
Prote	ction of hands:
W	Protective gloves
The g	love material has to be impermeable and resistant to the product/ the substance/ the preparation.
D - 0	

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 (Contd. on page 6)

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· Material of gloves

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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

Fluid
According to product specification
Characteristic
Not determined.
Not determined.
Undetermined.
155 °C (311 °F)
41 °C (106 °F)
Not applicable.
270 °C (518 °F)
Not determined.
Product is not selfigniting.
Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
1.5 Vol %
20.0 Vol %
12 hPa (9 mm Hg)
0.928 g/cm ³ (7.744 lbs/gal)
Not determined.
Not determined.
Not determined.
Not miscible or difficult to mix.

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	(Contd	. of page (
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	745.0 g/l / 6.22 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.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on to	oxicological	effects
---------------------	--------------	---------

· Acute toxicity:				
· LD/LC50 values that are relevant for classification:				
64742-95-	6 Solvent r	aphtha (petroleum), light arom.		
Oral	LD50	>6800 mg/kg (rat)		
Dermal	LD50	>3400 mg/kg (rab)		
Inhalative	LC50/4 h	>10.2 mg/l (rat)		
872-50-4 N	V-methyl-2	-pyrrolidone		
Oral	LD50	3914 mg/kg (rat)		
Dermal	LD50	8000 mg/kg (rabbit)		
95-63-6 1,2,4-trimethylbenzene (contaminant)				
Oral	LD50	5000 mg/kg (rat)		

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· 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

	ernational Agency for Research on Cancer)	
1330-20-7	xylene (contaminant)	3
98-82-8	cumene (contaminant)	2B
· NTP (Nati	onal Toxicology Program)	
98-82-8 c	umene (contaminant)	R
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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:
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · 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 GROUNI TRANSPORTATION
· IMDG, IATA	UN1993
· UN proper shipping name	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate, 1 METHOXY-2-PROPANOL)
· Transport hazard class(es)	
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3

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	(Contd. of page
Packing group IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	No
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	
Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	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. (2-METHOXY- METHYLETHYL ACETATE, 1-METHOXY-2-PROPANOL), 3, III

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):

872-50-4 N-methyl-2-pyrrolidone

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:

872-50-4 N-methyl-2-pyrrolidone

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			(Contd. of page 9
· Carcinogenic ca	tegories		
-	ental Protection Agenc	v)	
	ie (contaminant)		I
	ene (contaminant)		D, CBD
	Limit Value establishe	d by ACGIH)	
1330-20-7 xylei	ne (contaminant)		A4
· NIOSH-Ca (Na	tional Institute for Occ	pational Safety and Health)	
None of the ingr	edients is listed.		
		sified and labeled according to the C	Globally Harmonized System (GHS).
· Hazard pictogra	•		
GHS02 GHS	607 GHS08		
· Signal word Da	noer		
0	-		
	ning components of lal	•	
•	(petroleum), light aron		
N-methyl-2-pyrr	oliaone		
citrus terpene			
Stoddard solven			
· Hazard stateme			
	e liquid and vapor.		
H315 Causes sk			
	rious eye irritation.		
	e an allergic skin reactio	n.	
	e genetic defects.		
H350 May cause			
	ige fertility or the unboi		
		ous system through prolonged or re	speated exposure.
	tal if swallowed and ent	ers airways.	
· Precautionary s			
P210		t/sparks/open flames/hot surfaces. N	
P241		electrical/ventilating/lighting/equip	ment.
P260		fume/gas/mist/vapors/spray.	
P280		ves / eye protection / face protection.	
P240		ner and receiving equipment.	
P233	Keep container tigh		
P242	Use only non-spark		
P243		measures against static discharge.	
P264	Wash thoroughly af	ē	
P270		smoke when using this product.	
P272	Contaminated work	clothing must not be allowed out of a	the workplace.
P201	Obtain special instr	actions before use.	
P202	Do not handle until	all safety precautions have been read	d and understood.
P301+P310		nmediately call a POISON CENTER	
P303+P361+P3			nated clothing. Rinse skin with water
	shower.		
P305+P351+P3			ites. Remove contact lenses, if presen
	and easy to do. Con	inue rinsing.	
			(Contd. on page 11

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	(Contd. of page 10)
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	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. · Contact: Mr. Collins · Date of preparation / last revision 09/16/2015 / -· 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 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Muta. 1B: Germ cell mutagenicity, Hazard Category 1B Carc. 1B: Carcinogenicity, Hazard Category 1B Repr. 1B: Reproductive toxicity, Hazard Category 1B STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Asp. Tox. 1: Aspiration hazard, Hazard Category 1