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Safety Data Sheet acc. to OSHA HCS

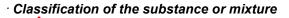
Reviewed on 04/24/2023

Printing date 04/24/2023

1 Identification

- · Product identifier
- · Trade name: Medium Temperature Reducer
- · Article number: SOL670
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Baril Coatings USA, LLC 401 Growth Parkway Angola, IN 46703
- *Information department:* Product safety department • *Emergency telephone number:* During normal opening times: +1 (260) 665-8431

2 Hazard(s) identification



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.

- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- 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.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

[.] Label elements

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

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Hazard pictograms	(Contd. of pag
GHS02 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling:	
toluene	
Solvent naphtha (petroleum), light arom.	
butanone	
heptane	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Causes serious eye irritation. May cause genetic defects.	
May cause genetic delects. May cause cancer.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
If medical advice is needed, have product container or label at hand.	
Keep out of reach of children.	
Read label before use.	
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.	
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.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label). Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin	with water/shower
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact l	
to do. Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
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 for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
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(Contd. of page 2) Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:

NFPA ratings (scale 0 - 4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH12Health = *2FIRE3Fire = 3REACTIVITY 0Reactivity = 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.

· Dangerous components:			
78-93-3	butanone	30.0%	
108-65-6	2-methoxy-1-methylethyl acetate	29.91%	
108-88-3		20.0%	
110-43-0	Methyl n-amyl ketone	10.0%	
142-82-5	1	5.0%	
64742-95-6	Solvent naphtha (petroleum), light arom.	5.0%	

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. 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.

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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
- 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

	tive equipment. Keep unprotected persons away. ntal precautions:			
Do not allow product to reach sewage system or any water course.				
	ective authorities in case of seepage into water course or sev	wage system.		
	to enter sewers/ surface or ground water.			
	nd material for containment and cleaning up: liquid-binding material (sand, diatomite, acid binders, univer	real hindore sawdust)		
Dispose con	taminated material as waste according to item 13.	sai binders, sawdust).		
	quate ventilation.			
	with water or aqueous cleansing agents			
	o other sections			
	7 for information on safe handling. 8 for information on personal protection equipment.			
	13 for disposal information.			
	Action Criteria for Chemicals			
PAC-1:				
	butanone	200 ppr		
	2-methoxy-1-methylethyl acetate	50 ppm		
108-88-3	toluene	67 ppm		
110-43-0	Methyl n-amyl ketone	150 ppr		
142-82-5	•	500 ppr		
70657-70-4	2-methoxypropyl acetate	50 ppm		
PAC-2:				
78-93-3	butanone	2700* ppn		
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppn		
108-88-3	toluene	560 ppm		
110-43-0	Methyl n-amyl ketone	670 ppm		
142-82-5	heptane	830 ppm		
70657-70-4	2-methoxypropyl acetate	1,000 ppn		
PAC-3:				
78-93-3	butanone	4000* ppn		
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppn		
108-88-3	toluene	3700* ppr		
110-43-0	Methyl n-amyl ketone	4000* ppn		
	heptane	5000* ppr		

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70657-70-4 2-methoxypropyl acetate

(Contd. of page 4) 5,000 ppm

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. 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 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.

78-93-	-3 butanone			
PEL	Long-term value: 590 mg/m³, 200 ppm			
REL	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm			
TLV	Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm BEI			
108-6	5-6 2-methoxy-1-methylethyl acetate			
WEEL	Long-term value: 50 ppm			
108-88	108-88-3 toluene			
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift			
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm			
TLV	Long-term value: 75 mg/m³, 20 ppm BEI			
110-4:	110-43-0 Methyl n-amyl ketone			
PEL	Long-term value: 465 mg/m³, 100 ppm			
		(Contd. on page 6)		

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	(Contd. of page 5
REL	Long-term value: 465 mg/m³, 100 ppm
TLV	Long-term value: 233 mg/m³, 50 ppm
	2-5 heptane
PEL	Long-term value: 2000 mg/m³, 500 ppm
REL	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min
TLV	Short-term value: 2050 mg/m³, 500 ppm Long-term value: 1640 mg/m³, 400 ppm
Ingred	lients with biological limit values:
	3 butanone
T_{i}	mg/L ledium: urine ime: end of shift arameter: MEK
108-88	3-3 toluene
	02 mg/L
	ledium: blood
	ime: prior to last shift of workweek arameter: Toluene
0.	03 mg/L
M	ledium: urine
	ime: end of shift
P	arameter: Toluene
0	3 mg/g creatinine
	ledium: urine
	ime: end of shift
P	arameter: o-Cresol with hydrolysis (background)
Expos	onal information: The lists that were valid during the creation were used as basis. Sure controls
	nal protective equipment:
	al protective and hygienic measures: away from foodstuffs, beverages and feed.
	liately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
Store p	protective clothing separately.
	contact with the eyes and skin.
	ning equipment:
exposi	e of brief exposure or low pollution use respiratory filter device. In case of intensive or longe ure use respiratory protective device that is independent of circulating air. c tion of hands:
[M]	
1115	Protective gloves
Due to	ove material has to be impermeable and resistant to the product/ the substance/ the preparation. In missing tests no recommendation to the glove material can be given for the product/ th ation/ the chemical mixture.
	ion of the glove material on consideration of the penetration times, rates of diffusion and th
degrad	dation (Contd. on page 7

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• 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 physical and General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Solvent-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	79-80.5 °C (174.2-176.9 °F)
Flash point:	< 0 °C (<32 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215 °C (419 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive an vapor mixtures are possible.
Explosion limits:	
Lower:	1 Vol %
Upper:	11.5 Vol %
· Vapor pressure at 20 °C (68 °F):	105 hPa (78.8 mm Hg)
Density at 20 °C (68 °F):	0.85 g/cm³ (7.09 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Miscible
Partition coefficient (n-octanol/wat	er). Not determined

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Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.9 %	
VOC content:	99.91 %	
	849.2 g/l / 7.09 lb/gal	
Solids content:	0.0 %	
Other infomation:	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 toxicity:

· LD/LC50 values that are relevant for classification:

108-88-3 toluene				
Oral	LD50	5,000 mg/kg (rat)		
Dermal	LD50	5,000 mg/kg (rat) 12,124 mg/kg (rabbit) 5,320 mg/l (mouse)		
Inhalative	LC50/4 h	5,320 mg/l (mouse)		

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

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 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: 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.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

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· 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

- 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:

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.

UN-Number	
DOT, IMDG, IATA	UN1263
UN proper shipping name	
DOT	Paint
IMDG	PAINT (HEPTANES), MARINE POLLUTANT
ΙΑΤΑ	PAINT

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	(Contd. of page
Transport hazard class(es)	
DOT	
RAMMARE LOUD	
3	
· Class	3 Flammable liquids
Label	3
IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMĎG, IATA	11
Environmental hazards:	Product contains environmentally hazardous substanc
	heptane
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number: Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex 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)	5L
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, ENVIRONMENTAL HAZARDOUS

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15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara

 Section 355 (extremely 	v hazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

108-88-3 toluene

• TSCA (Toxic Substances Control Act):

- 78-93-3 butanone
 - 108-65-6 2-methoxy-1-methylethyl acetate
- 108-88-3 toluene
 - 110-43-0 Methyl n-amyl ketone

142-82-5 heptane

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

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

• 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:

108-88-3 toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

78-93-3 butanone

108-88-3 toluene

142-82-5 heptane

· TLV (Threshold Limit Value established by ACGIH)

108-88-3 toluene

· 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: toluene Solvent naphtha (petroleum), light arom. butanone

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hantana	(Contd. of page ?
heptane	
Hazard statements	
Highly flammable liquid and vapor.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause genetic defects.	
May cause cancer.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
If medical advice is needed, have product container or label at hand.	
Keep out of reach of children.	
Read label before use.	
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.	
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.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	n water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	es, if present and ea
to do. Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
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 for extinction: CO2, powder or water spray.	
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/internation	onal regulations.
National regulations:	-
Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous carcinogenic mate	erials contained in th
preparation. Exceptions can be made by the authorities in certain cases.	
Chemical safety assessment: A Chemical Safety Assessment has not been car	rriad 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.

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• Department issuing SDS: Environment protection department.	
Contact: Mr. Williams	
Date of preparation / last revision 04/24/2023 / -	
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 Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Muta. 1B: Germ cell mutagenicity – Category 1B	
Carc. 1B: Carcinogenicity – Category 1B	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
· · · ·	