Printing date 05/25/2017 Reviewed on 05/25/2017

1 Identification

· Product identifer

· Trade name: POLYFLEX 55 RAL 1001 TAN

· Article number: WP55.B.6020

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Wasser Corporation 4118 B PL NW, Suite B Auburn, WA 98001, US Phone 253-850-2967

· Information department: Product safety department

· Emergency telephone number: **EMERGENCY PHONE NUMBERS:** USA and Canada: 1-800 424-9300 International: 1-703 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapor.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 1B H350 May cause cancer.

STOT RE 1 H372 Causes damage to 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

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Extracts (petroleum), heavy paraffinic distillate solvent

Talc (*Mg3H2*(*SiO3*)4)

bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane

titanium dioxide

· Hazard statements

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Keep out of reach from children.

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.

Wear protective gloves/protective clothing/eye protection/face protection. P280

P240 Ground/bond container and receiving equipment.

P233 Keep container tightly closed. P242 Use only non-sparking tools.

(Contd. on page 2)

Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

(Contd. of page 1) 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. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P321 Specific treatment (see on this label). Wash contaminated clothing before reuse. P363 P308+P313 IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. P333+P313 P314 Get medical advice/attention if you feel unwell. P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.* P405 Store locked up. Store in a well-ventilated place. Keep cool. P403+P235 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2Fire = 2

- · 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:		
64742-95-6	Solvent naphtha (petroleum), light arom.	10-30%%
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	5-10%%
	methyl amyl ketone	5-10%%
14807-96-6	Talc (Mg3H2(SiO3)4)	5-10%%
13463-67-7	titanium dioxide	1-5%%
136210-32-7	bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane	1-5%%
100-41-4	ethylbenzene	0.1-1%%

Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

(Contd. of page 2)

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 and to be sure call for a doctor.

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, 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 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: 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.

· 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

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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.

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Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

(Contd. of page 3)

- · 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

110-43-0 methyl amyl ketone

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

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm

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

· Ingredients with biological limit values:

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:

During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

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(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

· 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

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9 Physical	andc	nomical	nro	norties
) I II ysicui	unu c		טוע	permes

· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	
Form:	Fluid
Color:	Beige
· Odor:	Aromatic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	151 °C (304 °F)
· Flash point:	41 °C (106 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	450 °C (842 °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:	7.5 Vol %
· Vapor pressure at 20 °C (68 °F):	5 hPa (4 mm Hg)

(Contd. on page 6)

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Trade name: POLYFLEX 55 RAL 1001 TAN

(Contd. of page 5)

• Density at 20 °C (68 °F): 1.2 g/cm³ (10.014 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined.

· 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.

• *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 toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
64742-95-	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)	

- · 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

· IARC (Inte	rnational Agency for Research on Cancer)	
14807-96-6	Talc (Mg3H2(SiO3)4)	3
13463-67-7	titanium dioxide	2B
1330-20-7	xylene	3
7631-86-9	silicon dioxide, chemically prepared	3
100-41-4	ethylbenzene	2B

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Trade name: POLYFLEX 55 RAL 1001 TAN

14000 60 5		(Contd. of page 6)
	Quartz (SiO2)	I
111-76-2	2-butoxyethanol	3
,	onal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
	(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 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.

4 Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	UN1263	
	01/1203	
· UN proper shipping name	7	
$\cdot DOT$	Paint	
$\cdot ADR$	1263 Paint	
· IMDG, IATA	PAINT	
		(Contd. on page

(Contd. on page 8)

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Trade name: POLYFLEX 55 RAL 1001 TAN

	(Contd. of pag
· Transport hazard class(es)	
\cdot DOT	
FLAMMABLE LIQUID	
3	
· Class	3 Flammable liquids
· Label	3
· ADR, IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler): · EMS Number:	30 F-E,S-E
· Stowage Category	A A
· Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
$\cdot DOT$	
· Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per ither packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <i>IMDG</i>	
· Limited quantities (LQ)	5L
\cdot 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 1263 PAINT, 3, III

US

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Trade name: POLYFLEX 55 RAL 1001 TAN

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· Safety, health and environmental regulations/legislation specific Sara	for the substance or mixture
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
1330-20-7 xylene	
1344-28-1 aluminium oxide	
7727-43-7 barium sulphate, natural	
100-41-4 ethylbenzene	
1313-13-9 manganese dioxide	
111-76-2 2-butoxyethanol	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65	
Chemicals known to cause cancer:	
13463-67-7 titanium dioxide	
100-41-4 ethylbenzene	
14808-60-7 Quartz (SiO2)	
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)	
1330-20-7 xylene	I
7727-43-7 barium sulphate, natural	D, CBD(inh), NL(oral
100-41-4 ethylbenzene	D
1313-13-9 manganese dioxide	D
111-76-2 2-butoxyethanol	NL
TLV (Threshold Limit Value established by ACGIH)	'
Talc (Mg3H2(SiO3)4)	A
titanium dioxide	A
xylene	A
aluminium oxide	A
ethylbenzene	A
NIOSH-Ca (National Institute for Occupational Safety and Healt	(th)
13463-67-7 titanium dioxide	·

Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

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· Hazard pictograms







· Signal word Danger

· Hazard-determining components of labeling:

Extracts (petroleum), heavy paraffinic distillate solvent

Talc (*Mg3H2*(*SiO3*)4)

bis(4-(1,2-*bis*(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane

titanium dioxide

· Hazard statements

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

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/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P233 Keep container tightly closed. P242 Use only non-sparking tools.

Take precautionary measures against static discharge. P243

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.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Specific treatment (see on this label). P321

P363 Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention. P308+P313 If skin irritation or rash occurs: Get medical advice/attention. P333+P313

Get medical advice/attention if you feel unwell. P314

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international P501

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.

(Contd. on page 11)

Printing date 05/25/2017 Reviewed on 05/25/2017

Trade name: POLYFLEX 55 RAL 1001 TAN

(Contd. of page 10)

· 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: Product safety department
- · Contact: HS REG.DEPART.REG.SS
- · Date of preparation / last revision 05/25/2017 / -
- · 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

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. 3: Flammable liquids – Category 3 Skin Sens. 1: Skin sensitisation – Category 1

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

US

Printing date 12/08/2016 Reviewed on 06/10/2015

1 Identification

· Product identifer

· Trade name: POLYFLEX WP55A CATALYST

· Article number: WP55A.0

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Wasser Corporation 4118 B PL NW, Suite B Auburn, WA 98001, US Phone 253-850-2967

· Information department: Product safety department

· Emergency telephone number: EMERGENCY PHONE NUMBERS: USA and Canada: 1-800 424-9300 International: 1-703 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapor.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to 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

GHS07

GHS0

- · Signal word Danger
- · Hazard-determining components of labeling:

diphenylmethanediisocyanate,isomeres and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

· Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

(Contd. on page 2)

Printing date 12/08/2016 Reviewed on 06/10/2015

Trade name: POLYFLEX WP55A CATALYST

(Contd. of page 1)

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

Keep out of reach from children.

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.

P284 [In case of inadequate ventilation] wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 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).

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

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.

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+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

....

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 3)

Printing date 12/08/2016 Reviewed on 06/10/2015

Trade name: POLYFLEX WP55A CATALYST

· vPvB: Not applicable.

(Contd. of page 2)

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	30-60%%
101-68-8	4,4'-methylenediphenyl diisocyanate	10-30%%
64742-95-6	Solvent naphtha (petroleum), light arom.	10-30%%
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	1-5%%

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 and to be sure call for a doctor.

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.

- · 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.

(Contd. on page 4)

Printing date 12/08/2016 Reviewed on 06/10/2015

Trade name: POLYFLEX WP55A CATALYST

(Contd. of page 3)

· 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.

· 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:		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	0.15 mg/m3
101-68-8	4,4'-methylenediphenyl diisocyanate	0.45 mg/m3
· PAC-2:		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	3.6 mg/m3
101-68-8	4,4'-methylenediphenyl diisocyanate	5 mg/m3
· PAC-3:		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	22 mg/m3
101-68-8	4,4'-methylenediphenyl diisocyanate	55 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.

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.
- · 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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101-68-8 4,4'-methylenediphenyl diisocyanate

PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm

REL Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm

*10-min

TLV Long-term value: 0.051 mg/m³, 0.005 ppm

· 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.

Avoid contact with the eyes and skin.

· Breathing equipment:

During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

· 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- $\cdot \textit{General Information}$
- · Appearance:

Form: Fluid

(Contd. on page 6)

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	(Contd. of page	
Color:	Amber colored	
Odor:	Light	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	190 °C (374 °F)	
Flash point:	42 °C (108 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C (752 °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:	0.4 Vol %	
Upper:	7.5 Vol %	
Vapor pressure at 20 °C (68 °F):	5 hPa (4 mm Hg)	
Density at 20 °C (68 °F):	1.13 g/cm³ (9.43 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
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.

US

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
101-68-8 4	1,4'-methyl	enediphenyl diisocyanate	
Oral	LD50	2200 mg/kg (mouse)	
64742-95-	6 Solvent n	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)	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

	rnational Agency for Research on Cancer)	
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3
· NTP (Natio	onal Toxicology Program)	
None of the	e ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	e 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 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.

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· Other adverse effects No further relevant information available.

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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, ADR, IMDG, IATA	UN1263
UN proper shipping name	
DOT	Paint related material
ADR	1263 Paint related material
IMDG, IATA	PAINT RELATED MATERIAL
Transport hazard class(es)	
DOT	
RAMMARE LOUD	
3	
Class	3 Flammable liquids
Label	3
ADR, IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	III
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>
Stowage Category	A

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· Transport/Additional information:	(Contd. of page
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L
2	On cargo aircraft only: 220 L
· <i>ADR</i>	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
· · · · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

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

None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings):
- 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues
 - 101-68-8 4,4'-methylenediphenyl diisocyanate
- · TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · 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:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

diphenylmethanediisocyanate,isomeres and homologues

4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate

· Hazard statements

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

· Frecauliona	ry statements
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.
P284	[In case of inadequate ventilation] wear respiratory protection.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 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). P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. 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.

In case of fire: Use for extinction: CO2, powder or water spray. P370+P378 P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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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: Product safety department
- · Contact: HS REG.DEPART.REG.SS
- · Date of preparation / last revision 12/08/2016 / -
- · 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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1: Respiratory sensitisation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Categor

Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2

Carc. 2: Carcinogenicity = Category .

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

US

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1 Identification

· Product identifer

· Trade name: POLYFLEX 55 BASE RESIN GREY RAL 7024

· Article number: WP55B.083

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Wasser Corporation 4118 B PL NW, Suite B Auburn, WA 98001, US Phone 253-850-2967

· Information department: Product safety department

· Emergency telephone number: EMERGENCY PHONE NUMBERS: USA and Canada: 1-800 424-9300 International: 1-703 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapor.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 1B H350 May cause cancer.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHSC

- · Signal word Danger
- · Hazard-determining components of labeling:

Extracts (petroleum), heavy paraffinic distillate solvent bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane

titanium dioxide

· Hazard statements

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

· Precautionary statements

Keep out of reach from children.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/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.

P272 Contaminated work clothing must not be allowed out of the workplace.

P201 Obtain special instructions before use.

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P202 Do not handle until all safety precautions have been read and understood.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

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.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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 system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 2Reactivity = 0

· 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: Mixture of the substances listed below with nonhazardous additions.

· Dangerous co	•	
64742-95-6	Solvent naphtha (petroleum), light arom.	10-30%%
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	5-10%%
	methyl amyl ketone	5-10%%
13463-67-7	titanium dioxide	1-5%%
136210-32-7	bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane	1-5%%
1333-86-4	Carbon black	0.1-1%%
100-41-4	ethylbenzene	0.1-1%%

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

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- · 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 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: 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.

· 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

13463-67-7 titanium dioxide 3 108-65-6 2-methoxy-1-methylethyl acetate 3 7631-86-9 silicon dioxide, chemically prepared 1 108-83-8 2,6-dimethylheptan-4-one 7 1344-28-1 aluminium oxide 1 8052-41-3 Stoddard solvent 3 1330-20-7 xylene 1 1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	110-43-0	methyl amyl ketone	150 ppm
7631-86-9 silicon dioxide, chemically prepared 108-83-8 2,6-dimethylheptan-4-one 1344-28-1 aluminium oxide 8052-41-3 Stoddard solvent 1330-20-7 xylene 1333-86-4 Carbon black 546-93-0 Magnesite 400-41-4 ethylbenzene 14808-60-7 Quartz (SiO2) 1314-23-4 zirconium dioxide 57-55-6 Methyl glycol	13463-67-7	titanium dioxide	30 mg/m3
108-83-8 2,6-dimethylheptan-4-one 7 1344-28-1 aluminium oxide 1 8052-41-3 Stoddard solvent 3 1330-20-7 xylene 1 1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
1344-28-1 aluminium oxide 1 8052-41-3 Stoddard solvent 3 1330-20-7 xylene 1 1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	7631-86-9	silicon dioxide, chemically prepared	18 mg/m3
8052-41-3 Stoddard solvent 3 1330-20-7 xylene 1 1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	108-83-8	2,6-dimethylheptan-4-one	75 ppm
1330-20-7 xylene 1 1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	1344-28-1	aluminium oxide	15 mg/m3
1333-86-4 Carbon black 9 546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	8052-41-3	Stoddard solvent	300 mg/m3
546-93-0 Magnesite 4 100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	1330-20-7	xylene	130 ppm
100-41-4 ethylbenzene 3 14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	1333-86-4	Carbon black	9 mg/m3
14808-60-7 Quartz (SiO2) 0 1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	546-93-0	Magnesite	45 mg/m3
1314-23-4 zirconium dioxide 1 57-55-6 Methyl glycol 3	100-41-4	ethylbenzene	33 ppm
57-55-6 Methyl glycol 3	14808-60-7	Quartz (SiO2)	0.075 mg/m.
1 5 1	1314-23-4	zirconium dioxide	14 mg/m3
78-83-1 butanol	57-55-6	Methyl glycol	30 mg/m3
	78-83-1	butanol	150 ppm
111-76-2 2-butoxyethanol 6	111-76-2	2-butoxyethanol	60 ppm

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123-86-4	n-butyl acetate	(Contd. of p 5 ppm
	(2-methoxymethylethoxy)propanol	150 ppm
34390-94-0	dibutyltin dilaurate	1.1 mg/m
872 50 <i>1</i>	N-methyl-2-pyrrolidone	30 ppm
	2-methoxypropyl acetate	50 ppm
	z-memoxypropyi acetate lithium chloride	2.3 mg/m
	unium cnioriae	2.5 mg/m
· PAC-2:		
	methyl amyl ketone	670 ppm
	titanium dioxide	330 mg/n
	2-methoxy-1-methylethyl acetate	1,000 ppi
	silicon dioxide, chemically prepared	740 mg/n
	2,6-dimethylheptan-4-one	330 ppm
	aluminium oxide	170 mg/n
	Stoddard solvent	1,800 mg
1330-20-7		920* ppn
	Carbon black	99 mg/m.
	Magnesite	260 mg/n
	ethylbenzene	1100* pp
	Quartz (SiO2)	33 mg/m.
1314-23-4	zirconium dioxide	110 mg/n
	Methyl glycol	1,300 mg
78-83-1		1,300 ppi
111-76-2	2-butoxyethanol	120 ppm
	n-butyl acetate	200 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	1700* pp
	dibutyltin dilaurate	8 mg/m3
	N-methyl-2-pyrrolidone	32 ppm
	2-methoxypropyl acetate	1,000 pp
7447-41-8	lithium chloride	25 mg/m.
· PAC-3:		
110-43-0	methyl amyl ketone	4000* ppm
13463-67-7	titanium dioxide	2,000 mg/m
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m3
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
1344-28-1	aluminium oxide	990 mg/m3
8052-41-3	Stoddard solvent	29500** mg
1330-20-7	xylene	2500* ppm
1333-86-4	Carbon black	590 mg/m3
546-93-0	Magnesite	1,600 mg/m _s
	ethylbenzene	1800* ppm
	Quartz (SiO2)	200 mg/m3
	zirconium dioxide	680 mg/m3

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		(Contd. of page 4)
	Methyl glycol	7,900 mg/m3
78-83-1	butanol	8000* ppm
111-76-2	2-butoxyethanol	700 ppm
	n-butyl acetate	3000* ppm
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm
	dibutyltin dilaurate	48 mg/m3
	N-methyl-2-pyrrolidone	190 ррт
70657-70-4	2-methoxypropyl acetate	5,000 ppm
7447-41-8	lithium chloride	150 mg/m3

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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.
- \cdot *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 other constituents have no known exposure limits.

110-	43-0 methyl amyl ketone
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
1333	-86-4 Carbon black
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction
100-	41-4 ethylbenzene
PEL	Long-term value: 435 mg/m³, 100 ppm
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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

· Ingredients with biological limit values:

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:

During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear suitable respiratory equipment. When air concentrations are not known (or above the TLV), an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

· 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.

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Safety Data Sheet acc. to OSHA HCS

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· Information on basic physical and chemical properties

Fluid

Grev

Light

Not determined.

Not determined.

Undetermined. 151 °C (304 °F)

41 °C (106 °F)

Not applicable.

450 °C (842 °F)

Not determined.

0.7 Vol %

7.5 Vol %

5 hPa (4 mm Hg)

Not determined.

Not determined. Not determined.

Not determined. Not determined.

Product is not selfigniting.

1.19 g/cm³ (9.931 lbs/gal)

Not miscible or difficult to mix.

No further relevant information available.

mixtures are possible.

· Eye protection:

· General Information

· Appearance: Form:

Color:

· pH-value:

· Flash point:

· Auto igniting:

· Odor threshold:

· Change in condition

· Ignition temperature:

· Danger of explosion:

· Explosion limits:

· Relative density

· Evaporation rate

· Vapor density

· Viscosity: Dynamic:

Kinematic: · Other information

Lower:

Upper:

Melting point/Melting range:

Boiling point/Boiling range:

· Flammability (solid, gaseous):

· Decomposition temperature:

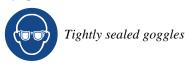
· Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$):

· Solubility in / Miscibility with

· Partition coefficient (n-octanol/water): Not determined.

· Density at 20 °C (68 °F):

· Odor:



9 Physical and chemical properties

Product is not explosive. However, formation of explosive air/vapor

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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:

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

Oral	LD50	>6800 mg/kg (rat)
		>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (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

,	national Agency for Research on Cancer)	
14807-96-6	Talc (Mg3H2(SiO3)4)	3
13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3
1330-20-7	xylene	3
1333-86-4	Carbon black	2B
100-41-4	ethylbenzene	2B
	Quartz (SiO2)	1
111-76-2	2-butoxyethanol	3
. NTP (Natio	nal Taxicology Program)	

14808-60-7 Quartz (SiO2)

· 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.

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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 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.

UN-Number		
DOT, ADR, IMDG, IATA	UN1263	
UN proper shipping name		
DOT	Paint	
ADR	1263 Paint	
IMDG, IATA	PAINT	
Transport hazard class(es)		
DOT		
FLAMMARIE 1000		
Class	3 Flammable liquids	
Label	3	
ADR, IMDG, IATA		
Class	3 Flammable liquids	
Label	3	

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	(Contd. of pag
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	30
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	A
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: 60 L
	On cargo aircraft only: 220 L
- <i>ADR</i>	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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 1263 PAINT, 3, III

15 Regulatory information

- $\cdot \textit{Safety, health and environmental regulations/legislation specific for the substance or \textit{mixture}}$
- · Sara

· Section 35.	· Section 355 (extremely hazardous substances):		
None of the	None of the ingredients is listed.		
· Section 31.	· Section 313 (Specific toxic chemical listings):		
1344-28-1	aluminium oxide		
1330-20-7	xylene		
	ethylbenzene		
147-14-8	Phthalocyanine Blue		
1	2-butoxyethanol		
872-50-4	N-methyl-2-pyrrolidone		
· TSCA (Tox	· TSCA (Toxic Substances Control Act):		

All ingredients are listed.

· Proposition 65

· Chemicals k	· Chemicals known to cause cancer:	
13463-67-7	titanium dioxide	
1333-86-4	Carbon black	
100-41-4	ethylbenzene	
14808-60-7	Quartz (SiO2)	
	(C+1 11)	

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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	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
1330-20-7 xylene	
100-41-4 ethylbenzene	1
111-76-2 2-butoxyethanol	1
TLV (Threshold Limit Value established by ACGIH)	·
Talc (Mg3H2(SiO3)4)	
titanium dioxide	
aluminium oxide	
xylene	
Carbon black	
ethylbenzene	
NIOSH-Ca (National Institute for Occupational Safety and Health)	1
13463-67-7 titanium dioxide	
1333-86-4 Carbon black	
14808-60-7 Quartz (SiO2)	

· Hazard pictograms







GHS02

GHS07

CHECO

- · Signal word Danger
- · Hazard-determining components of labeling:

Extracts (petroleum), heavy paraffinic distillate solvent

bis(4-(1,2-bis(ethoxycarbonyl)ethy-lamino)-3-methylcyclohexyl)methane titanium dioxide

· Hazard statements

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P240 Ground/bond container and receiving equipment.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.

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(Contd. of page 11) P243 Take precautionary measures against static discharge. 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. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. In case of fire: Use for extinction: CO2, powder or water spray. P370+P378 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.

· 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: Product safety department
- · Contact: HS REG.DEPART.REG.SS
- · Date of preparation / last revision 12/08/2016 / -
- · 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 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. 3: Flammable liquids – Category 3 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 1B: Carcinogenicity – Category 1B

-US