

Printing date 04/11/2016 Reviewed on 03/31/2016

### 1: Identification

- · 1.1 Product identifier
- · Trade name: WCP-81 Aerosol
- · Application of the substance / the mixture White contrast paint for MPI inspection per ASTM E-1444
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Met-L-Chek Company

1639 Euclid Street

Santa Monica, California, 90404, U.S.A.

Phone: 1-310-450-1111 Fax: 1-310-452-4046 E-mail: info@met-l-chek.com http://www.met-l-chek.com

- · Information department: Product safety department
- 1.4 Emergency telephone number: Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887

### 2: Hazard(s) identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Carc. 2 H351 Suspected of causing cancer. STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms







GHS02

GHS07

GHS08

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

heptane

titanium dioxide

acetone

Naphtha (petroleum), hydrotreated light

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210

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P301+P310 IF SWALLOWED: Immediately call a doctor.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1 Fire = 4 Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 4 Reactivity = 3

- $\cdot$  2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

## 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

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

· Dangerous components:					
CAS: 67-64-1 EINECS: 200-662-2	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%			
CAS: 142-82-5 EINECS: 205-563-8	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%			
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	1-10%			
CAS: 68476-86-8 EINECS: 270-705-8	Petroleum gases, liquefied, sweetened Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas, H280	1-10%			
CAS: 471-34-1 EINECS: 207-439-9	calcium carbonate	≤1%			
CAS: 64742-89-8 EINECS: 265-192-2	Solvent naphtha (petroleum), light aliph. Asp. Tox. 1, H304	≤1%			
CAS: 64742-49-0 EC number: 920-750-0	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336	≤1%			
CAS: 1330-20-7 EINECS: 215-535-7	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≤1%			

3)



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### 4: First-aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5: Fire-fighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Water haze

Foam

ABC powder

- · For safety reasons unsuitable extinguishing agents: Water spray
- · 5.2 Special hazards arising from the substance or mixture Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials.

Place in a chemical waste container.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### 7: Handling and storage

- · 7.1 Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Use explosion-proof apparatus / fittings and spark-proof tools.

Containers may be hazardous when empty since residue liquid and vapors may be present

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 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.
- · 8.1 Control parameters

· Com	ponents	with	limit	values	that	require	monitor	ing a	t the	work	olace:

## 67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm

BEI

## 142-82-5 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

### 471-34-1 calcium carbonate

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m³ \*total dust \*\*respirable fraction

TLV TLV withdrawn

### 1330-20-7 xylene

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

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REL Short-term value: 655 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm

BEI

### · Ingredients with biological limit values:

### 67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

### 1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- $\cdot$  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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.





Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use organic vapor respirator (type A), or self contained breathing apparatus. For dry powder nuisance exposue use type P96(US) or type Pi(EU EN143 particle respirator. For higher level protection use type OV/AG/P99(US or ABEK-P2(EU EN 143) respirator cartridges.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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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· Eye protection:



Safety glasses

Tightly sealed goggles

**Kinematic:** 

· Body protection: Use protective suit.

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9: Physical and chemical prop	erties				
<ul> <li>9.1 Information on basic physical an</li> <li>General Information</li> <li>Appearance:</li> </ul>	d chemical properties				
Form:	Aerosol				
Color:	White				
· Odor:	Characteristic				
· Odor threshold:	Not determined.				
· pH-value:	Not determined.				
· Change in condition					
Melting point/Melting range:	Undetermined.				
Boiling point/Boiling range:	55 °C (131 °F)				
Flash point:	-20 °C (-4 °F) (ASTM D-93)				
· 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 air/vapor mixtures are possible.				
· Explosion limits:					
Lower:	1.1 Vol %				
Upper:	13.0 Vol %				
· Vapor pressure at 20 °C (68 °F):	233 hPa (175 mm Hg)				
• Density at 20 °C (68 °F):	0.942 g/cm³ (7.861 lbs/gal) (ASTM D-1298)				
· Relative density	Not determined.				
· Vapor density	Not determined.				
· Evaporation rate	Not applicable.				
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.				
· Partition coefficient (n-octanol/water): Not determined.					
· Viscosity:					
Dynamic:	Not determined.				
****					

Not determined.

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• Solvent content:

Organic solvents:

VOC content:

48.0 %

18.0 %

169.6 g/l / 1.42 lb/gl

Solids content: 11.0 %

• 9.2 Other information No further relevant information available.

## 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:

Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity: Information on hazardous ingredients

· LD/LC50	· LD/LC50 values that are relevant for classification:					
67-64-1 ad	etone					
Dermal	LD50		20000 mg/kg (rabbit)			
Inhalative	Inhalative LC50/4h 0,29		>20 mg/kg (rat)			
142-82-5 h	neptane					
Inhalative	LC50/4h	0,29	60 mg/kg (rabbit)			
64742-49-	0 Naphtha	(petr	oleum), hydrotreated light			
Dermal	LD50		>3000 mg/kg (rabbit)			
Inhalative	Inhalative LC50/4h 0,29		>20 mg/kg (rat)			
1330-20-7 xylene						
Dermal	LD50		2000 mg/kg (rabbit)			

- · Primary irritant effect:
- · on the skin:

Causes skin irritation.

on the eye:

Causes serious eye irritation.

- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Carcinogenic categories

	· IARC (International Agency for Research on Cancer)					
ſ	13463-67-7	titanium dioxide	2B			
	1330-20-7	xylene	3			
		/O1-1	0\			

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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

- · 12.1 Toxicity
- · Aquatic toxicity:

Information on hazardous ingredients

#### 67-64-1 acetone

LC50/ 96 h >1000 mg/l (Fish)

EC50/ 48 h >1000 mg/l (daphnia)

IC50 /72 h >1000 mg/l (Algea)

### 64742-49-0 Naphtha (petroleum), hydrotreated light

LC50/ 96 h 51 mg/l (Fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Waste/ unused products

Collect all waste in suitable and labelled containers and dispose according to local legislation.

- · Uncleaned packagings:
- · Recommendation:

Waste / used products

Waste products and empty packages dispose of in accordance with local regulations.

Empty containers may contain flammable residue and vapors.

### 14: Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA UN1950
- · 14.2 UN proper shipping name
- · DOT, IATA Aerosols, flammable

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1950 Aerosols, ENVIRONMENTALLY HAZARDOUS AEROSOLS (HEPTANES), MARINE POLLUTANT  2.1
2.1
2.1
2.1
2.1
2.1
2.1
2 5F Gases
2.1
2.1
2.1
2.1
2.1
not applicable
Product contains environmentally hazardous substance heptane
Symbol (fish and tree) Symbol (fish and tree)
Warning: Gases
F-D,S-U
В



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· Stowage Code SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear

of living quarters.

• Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

• 14.7 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: 75 kg



On cargo aircraft only: 150 kg

· ADR

· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

• Remarks: Aerosols can be transported under LIMITED QUANTITIES

(LQ).

See ADR 3.4 - LQ2. That means no label 2.

· IMDG

· Limited quantities (LQ) · Excepted quantities (EQ)

Not permitted as Excepted Quantity

• Remarks: Aerosols can be transported under LIMITED QUANTITIES

Code: E0

(LQ).

See IMDG 3.4 - LQ2. That means no label 2.

· IATA

· Remarks: Quantity Limitation - Passenger Aircraft

75 kg

Quantity Limitation - Cargo Aircraft

150 kg

Quantity Limitation - Limited quantities

30 kg G

Packaging Instruction: Passenger Aircraft - PI 203 Cargo aircraft - PI 203 Limited quantities - PI Y203

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• UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

### 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65
- · Chemicals known to cause cancer:

13463-67-7 titanium dioxide

· 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)						
	67-64-1	acetone	I			
	142-82-5	heptane	D			
	1330-20-7	xylene	Ι			

## · TLV (Threshold Limit Value established by ACGIH)

`	· /	
67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
1330-20-7	xylene	A4

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

13463-67-7 titanium dioxide

· 15.2 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.

### · Relevant phrases

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapor.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

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H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

· Date of preparation / last revision 04/11/2016 / -

### · 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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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, ÉU)

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. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 1: Flammable liquids, Hazard Category 1 Flam. Liq. 2: Flammable liquids, Hazard Category 2

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

Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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

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

Carc. 2: Carcinogenicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

\* \* Data compared to the previous version altered.