

Safety Data Sheet

SPRAY ADHESIVE

Version 10.0

Revision Date 11/30/2014

Print Date 12/04/2014

SECTION 1. IDENTIFICATION

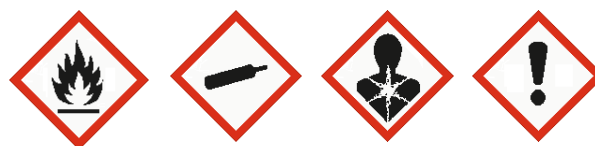
Commercial Product Name : SPRAY ADHESIVE
Product number : 0890910055
SDS-Identcode : 10033768
Product Use Description : Adhesives
Company : Würth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone : +1 201 825 27 10
Telefax : +1 201 825 16 43
Responsible/issuing person : prodsafe@wuerth.com
Emergency telephone number : +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Liquefied gas
Skin irritation : Category 2
Eye irritation : Category 2A
Reproductive toxicity : Category 2
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS Label element

Hazard pictograms :



Signal word : Danger

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Hazard statements : H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Storage:
P403 + P233 Store in a well-ventilated place. Keep

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container tightly closed.

P405 Store locked up.

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

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
propane	74-98-6	>= 20 - < 30
acetone	67-64-1	>= 20 - < 30
butane	106-97-8	>= 10 - < 20
n-heptane	142-82-5	>= 5 - < 10
Heptane, branched, cyclic and linear	426260-76-6	>= 5 - < 10
methyl acetate	79-20-9	>= 5 - < 10
toluene	108-88-3	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce

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vomiting. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Form : Aerosol containing a liquefied gas
- Suitable extinguishing media : Dry powder
Carbon dioxide (CO₂)
Water spray
Foam
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
If the temperature rises there is danger of the vessels

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bursting due to the high vapor pressure.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Remove all sources of ignition.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Immediately evacuate personnel to safe areas.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
Clean contaminated surface thoroughly.

CERCLA Hazardous substances and corresponding RQs:

67-64-1	5,000 lbs <i>final RQ</i>
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108-88-3	1,000 lbs <i>final RQ</i>
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SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : For personal protection see section 8.
Limit the stocks at work place.

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Use only in well-ventilated areas.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Do not spray on a naked flame or any incandescent material.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
Take precautionary measures against static discharges.
Use appropriate container to avoid environmental contamination.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Keep away from heat and sources of ignition.
Do not smoke.
No sparking tools should be used.
Electrical equipment should be protected to the appropriate standard.

Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Store in original container.
BEWARE: Aerosol is pressurized. Keep away from heat.
Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Please observe the storage instructions for aerosols!

Advice on common storage : Incompatible with oxidizing agents.

Keep away from food, drink and animal feedingstuffs.
Do not store together with oxidizing and self-igniting products.

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Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
propane	74-98-6	OSHA Z-1	TWA	1,000 ppm 1,800 mg/m ³	1997-08-04
		NIOSH REL	TWA	1,000 ppm 1,800 mg/m ³	2013-10-08
		OSHA P0	TWA	1,000 ppm 1,800 mg/m ³	1989-01-19
acetone	67-64-1	ACGIH	TWA	500 ppm	2013-03-01
		ACGIH	STEL	750 ppm	2013-03-01
		OSHA Z-1	TWA	1,000 ppm 2,400 mg/m ³	1997-08-04
		NIOSH REL	TWA	250 ppm 590 mg/m ³	2013-10-08
		OSHA P0	TWA	750 ppm 1,800 mg/m ³	1989-01-19
		OSHA P0	STEL	1,000 ppm 2,400 mg/m ³	1989-01-19
butane	106-97-8	NIOSH REL	TWA	800 ppm 1,900 mg/m ³	2013-10-08
		OSHA P0	TWA	800 ppm 1,900 mg/m ³	1989-01-19
		ACGIH	STEL	1,000 ppm	2013-03-01
n-heptane	142-82-5	NIOSH REL	TWA	85 ppm 350 mg/m ³	2013-10-08
		NIOSH REL	C	440 ppm 1,800 mg/m ³	2013-10-08
		OSHA Z-1	TWA	500 ppm 2,000 mg/m ³	1997-08-04
		ACGIH	TWA	400 ppm	2013-03-01
		ACGIH	STEL	500 ppm	2013-03-01
		OSHA P0	TWA	400 ppm 1,600 mg/m ³	1989-01-19
Heptane, branched, cyclic and linear	426260-76-6	ACGIH	TWA	400 ppm	2013-03-01
		ACGIH	STEL	500 ppm	2013-03-01
methyl acetate	79-20-9	ACGIH	TWA	200 ppm	2013-03-01
		ACGIH	STEL	250 ppm	2013-03-01
		OSHA Z-1	TWA	200 ppm 610 mg/m ³	1997-08-04
		NIOSH REL	TWA	200 ppm 610	2013-10-08

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				mg/m ³	
		NIOSH REL	ST	250 ppm 760 mg/m ³	2013-10-08
		OSHA P0	TWA	200 ppm 610 mg/m ³	1989-01-19
		OSHA P0	STEL	250 ppm 760 mg/m ³	1989-01-19

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Product contains low-boiling liquids. Respiratory protective equipment must be air supplied respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not inhale aerosol.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	: Aerosol containing a liquefied gas
Physical state	: aerosol
Colour	: light yellow, clear
Odour	: solvent-like
Odour Threshold	: No data available
Flash point	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: Extremely flammable aerosol.
Molecular weight	: No data available
pH	: Not applicable
Freezing point	: No data available
Boiling point/boiling range	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: No data available
Evaporation rate	: No data available
Density	: 0.840 g/cm ³
Relative density	: No data available
Bulk density	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

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Volatile organic : 53.5 %
compounds (VOC) content 388 g/l

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂)
Carbon monoxide

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Hazardous reactions : If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
Vapours may form explosive mixture with air.
Note: No decomposition if stored and applied as directed.

Note: No decomposition if stored and applied as directed.

Vapours may form explosive mixtures with air.
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.
Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Vapours may cause drowsiness and dizziness.

Component:

acetone

67-64-1

Acute oral toxicity: LD50 Rat
Dose: 5,800 mg/kg

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Acute dermal toxicity: LD50 Rabbit
Dose: > 7,426 mg/kg

Acute inhalation toxicity: LC50 Rat
Dose: 76 mg/l/Exposure time: 4 h

Skin irritation: Result: Repeated exposure may cause skin dryness or cracking.

Skin irritation: Guinea pig
Result: No skin irritation

Eye irritation: Rabbit
Result: Irritation to eyes, reversing after 7 to 21 days

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

butane 106-97-8

Acute inhalation toxicity: LC50 Mouse
Dose: 1,237 mg/l/520400 ppm
Exposure time: 2 h

n-heptane 142-82-5

Acute oral toxicity: LD50 Rat
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rabbit
Dose: > 2,000 mg/kg
Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 Rat
Dose: > 29.29 mg/l/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: irritating
Method: OECD Test Guideline 404

Eye irritation: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

methyl acetate 79-20-9

Acute oral toxicity: LD50 Rat
Dose: 6,482 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rat

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Dose: > 2,000 mg/kg
Method: OECD Test Guideline 402

Acute inhalation toxicity: LC0 Rabbit
Dose: 49.2 mg/l/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Result: Repeated exposure may cause skin dryness or cracking.

Eye irritation: Result: irritating

toluene

108-88-3

Acute oral toxicity: LD50 Rat
Dose: 5,580 mg/kg

Acute dermal toxicity: LD50 Rabbit
Dose: ca. 12,267 mg/kg

Acute inhalation toxicity: LC50 Rat
Dose: >= 28.1 mg/l/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: irritating

Eye irritation: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Reproductive toxicity: Suspected human reproductive toxicant, Suspected of damaging the unborn child.

Carcinogenicity:**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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SECTION 12. ECOLOGICAL INFORMATION

Volatile organic
compounds (VOC)
content : 53.5 %

Additional ecological
information : The product should not be allowed to enter drains, water
courses or the soil.

Component:

acetone

67-64-1

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 6,210 - 8,120 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia pulex (Water flea)

Dose: 8,800 mg/l

Exposure time: 48 h

Toxicity to algae:

NOEC

Species: Microcystis aeruginosa

Dose: 530 mg/l

Exposure time: 8 d

Toxicity to bacteria:

Respiration inhibition of activated sludge EC50

Species:

Dose: 61.15 mg/l

Exposure time: 30 min

Method: ISO 8192

n-heptane

142-82-5

Toxicity to fish:

LC50

Species:

Dose: 5.738 mg/l

Exposure time: 96 h

Calculation

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 1.5 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

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		<p>Species: Dose: 4.338 mg/l Exposure time: 72 h Calculation <u>Toxicity to algae:</u> NOEC Species: Dose: 0.97 mg/l Exposure time: 72 h Calculation <u>Toxicity to bacteria:</u> EC50 Species: Bacteria Dose: 22.6 mg/l Exposure time: 48 h Calculation <u>Toxicity to bacteria:</u> NOEC Species: Bacteria Dose: 5.057 mg/l Exposure time: 48 h Calculation</p>
methyle acetate	79-20-9	<p><u>Toxicity to fish:</u> LC50 Species: Brachydanio rerio (zebrafish) Dose: 250 - 350 mg/l Exposure time: 96 h</p> <p><u>Acute and prolonged toxicity for aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: 1,026.7 mg/l Exposure time: 48 h</p> <p><u>Toxicity to algae:</u> EC50 Species: Desmodesmus subspicatus (Scenedesmus subspicatus) Dose: > 120 mg/l Exposure time: 72 h</p> <p><u>Toxicity to bacteria:</u> EC50 Species: Pseudomonas putida Dose: 6,000 mg/l Exposure time: 16 h</p>
toluene	108-88-3	<p><u>Toxicity to fish:</u> LC50 Species: Oncorhynchus kisutch (coho salmon) Dose: 5.5 mg/l Exposure time: 96 h</p>

Acute and prolonged toxicity for aquatic invertebrates:

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EC50

Species: Ceriodaphnia dubia (water flea)

Dose: 3.78 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Chlorella vulgaris (Fresh water algae)

Dose: 134 mg/l

Exposure time: 3 h

Toxicity to bacteria:

EC50

Species: Bacteria

Dose: 84 mg/l

Exposure time: 24 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

ID No : UN 1950

Proper shipping name : Aerosols

Class : 2.1

Labels : 2.1

Emergency Response : 126

Guidebook Number

TDGR

ID No : UN 1950

Proper shipping name : AEROSOLS

Class : 2.1

Labels : 2.1

ICAO/IATA-DGR

ID No : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

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ICAO-Labels : 2.1
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203
Environmentally hazardous : no

IMDG-Code

ID No : UN 1950
Description of the goods : AEROSOLS
(n-heptane)
Class : 2.1
IMDG-Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard
Sudden Release of Pressure Hazard

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.

EPCRA_313 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

EPCRA_302 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

PENN RTK US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

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<u>Components</u>	<u>CAS-No.</u>
propane	74-98-6
acetone	67-64-1
butane	106-97-8
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8
Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene	25038-32-8
n-heptane	142-82-5
Heptane, branched, cyclic and linear	426260-76-6
methyl acetate	79-20-9
toluene	108-88-3

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	<u>CAS-No.</u>
propane	74-98-6
acetone	67-64-1
butane	106-97-8
n-heptane	142-82-5
methyl acetate	79-20-9
benzene	71-43-2

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<u>Components</u>	<u>CAS-No.</u>
propane	74-98-6
acetone	67-64-1
butane	106-97-8
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8
Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene	25038-32-8
n-heptane	142-82-5
methyl acetate	79-20-9
toluene	108-88-3

California Prop. 65

: WARNING! This product contains a chemical known to the State of California to cause cancer.

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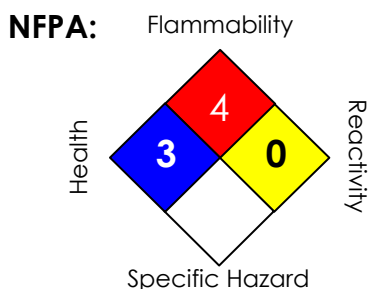
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WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION
Further information

HMIS III:

HEALTH	3*
FLAMMABILITY	4
PHYSICAL	2

0 = Insignificant, 1 = Slight,
2 = Moderate, 3 = High, 4 = Extreme

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by : SAP Business Compliance Services GmbH
 Birtenbacher Str. 19
 D-57078 Siegen
 Germany
 Telephone: +49-(0)271-88072-0

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