

# SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier Pan-Spray (White) (4296-50)

Other means of identificationNot availableRecommended useCoatingRecommended restrictionsNone known.ManufacturerNu-Calgon

2611 Schuetz Road St. Louis, MO 63043 US

Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300

(CHEMTREC)

#### 2. Hazards Identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2

Carcinogenicity Category 2
Reproductive toxicity (the unborn child) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Health hazards



Signal word Danger

Hazard statement Suspected of causing cancer.

Suspected of damaging the unborn child.

Causes skin irritation.
Causes serious eye irritation.
Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood.

Wash thoroughly after handling.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area.

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

**Response** If exposed or concerned: Get medical advice/attention.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

Storage Store locked up.

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

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

Disposal Hazard(s) not otherwise classified (HNOC) Supplemental information Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Not applicable.

3. (	Compos	sition/In	formation	on Ind	redients

3. Composition/Information on Ingredients				
Mixture				
Chemical name	Common name and synonyms	CAS number	%	
Heptane		142-82-5	10 - 30	
Methane, oxybis-		115-10-6	10 - 30	
Toluene		108-88-3	10 - 30	
Acetone		67-64-1	5 - 10	
Isobutane		75-28-5	5 - 10	
Propane		74-98-6	5 - 10	
Titanium oxide		13463-67-7	5 - 10	
2-Propanol, 1-methoxy-, ace	etate	108-65-6	1 - 5	
Aluminum hydroxide		21645-51-2	1 - 5	
Distillates, petroleum, steam-cracked, polymers w steam-cracked petroleum na	0	68410-16-2	1 - 5	
Quaternary ammonium com bis(hydrogenated tallow alk dimethyl, salts with bentonit	yl)	68953-58-2	1 - 5	
Stoddard solvent		8052-41-3	1 - 5	
2-Pentanone, 4-methyl-		108-10-1	0.1 - 1	
Composition comments	US GHS: The exact percentage (concentration) secret in accordance with paragraph (i) of §1910		withheld as a trac	
	4. First Aid Measures			
Inhalation	If inhaled: If breathing is difficult, remove person Call a poison center/doctor if you feel unwell.	to fresh air and keep con	nfortable for breat	
01 '	If an altin Mank with almate of water If altin inste	4: O-4 1:1		

Inhalation	If inhaled:	If breathing i	is difficult,	remove p	erson to fresh	air and keep	comfortable for breathing.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific Skin contact

treatment (see product label). Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Eye contact

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth, Do Ingestion not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

chronic effects.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

cause drowsiness or dizziness. May cause redness and pain. Prolonged exposure may cause

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves. IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Do not puncture or incinerate container. Do not store at

temperatures above 49°C. Keep away from sources of ignition. No smoking.

## 5. Fire Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media

Foam. Dry powder. Carbon dioxide (CO2). Carbon dioxide. Dry chemical. Foam.

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

Extremely flammable aerosol.

General fire hazards

Hazardous combustion

products

May include and are not limited to: Oxides of carbon.

**Explosion data** 

Sensitivity to mechanical impact

Not available.

Sensitivity to static discharge

Not available.

# 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use good industrial hygiene practices in handling this material.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

#### 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
2-Pentanone, 4-methyl- (CAS 108-10-1)	PEL	410 mg/m3	
,		100 ppm	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3 500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm	
Stoddard solvent (CAS 8052-41-3)	PEL	2900 mg/m3	

US. OSHA Table Z-1 Limits for Air Conta Components	aminants (29 CFR 1910.1000) Type	Value	Form
	-76-5	500 ppm	
Titanium oxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 1910.1000) Components	) Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
2-Pentanone, 4-methyl-	STEL	75 ppm	
(CAS 108-10-1)	T\\/\	20	
A (OAO 67 64 4)	TWA STEL	20 ppm	
Acetone (CAS 67-64-1)	TWA	750 ppm	
Aluminum hydravida (CAS	TWA	500 ppm	Dogniroble fraction
Aluminum hydroxide (CAS 21645-51-2)	TVVA	1 mg/m3	Respirable fraction.
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chemical F	lazards		
Components	Туре	Value	
2-Pentanone, 4-methyl- (CAS 108-10-1)	STEL	300 mg/m3 75 ppm	
	TWA	205 mg/m3	
	IVVA	50 ppm	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
,		250 ppm	
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3 440 ppm	
	TWA	350 mg/m3 85 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
Stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
	TWA	350 mg/m3	
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm	
	TWA	375 mg/m3 100 ppm	
US. AIHA Workplace Environmental Exp	oosure Level (WFFL) Guides		
Components	Type	Value	
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	TWA	50 ppm	

#### US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	
Methane, oxybis- (CAS 115-10-6)	TWA	1880 mg/m3	
,		1000 ppm	

#### **Biological limit values**

<b>ACGIH</b>	<b>Biological</b>	Exposure	Indices
700111	Diviogical	LAPOSUIC	maices

Components	Value	Determinant	Specimen	Sampling Time
2-Pentanone, 4-methyl- (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

Exposure guidelines Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Not applicable.

Not available.

Skin protection

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA). Where exposure guideline

levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and Chemical Properties

Appearance	Spray
Physical state	Gas.
Form	Aerosol
Color	White.
Odor	Solvent
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	0.88 - 0.92
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Explosive limit - lower (%)

Explosive limit - upper (%) Not available. 55 - 65 psig Vapor pressure Vapor density Not available. Not available. Relative density Solubility(ies) Not available. Not available. Auto-ignition temperature Not available. **Decomposition temperature** 350 - 500 cP Viscosity

Other information

Flame extension > 100 cm Flammability (flash back) No

10. Stability and Reactivity

**Reactivity** This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

**Chemical stability** Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals. Aerosol containers are unstable at temperatures above 49°C

(120.2°F).

Incompatible materials Oxidizers.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

Inhalation Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Narcotic

effects.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Information on toxicological effects

Acute toxicity Narcotic effects.

Components Species Test Results

2-Pentanone, 4-methyl- (CAS 108-10-1)

Acute

Dermal

LD50 Rabbit 16000 mg/kg

Inhalation

LC50 Rat 8.2 mg/l, 4 Hours

Oral

LD50 Mouse 1200 mg/kg

Rat 2080 mg/kg

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat > 5320 ppm, 4 hours

Oral

LD50 Rat 8532 mg/kg

**Test Results** Components **Species** Acetone (CAS 67-64-1) Acute Dermal LD50 Rabbit 15800 mg/kg 20 ml/kg Inhalation LC50 Mouse 44000 mg/m3/4H Rat 76 mg/l, 4 Hours 50.1 mg/l, 8 Hours 39 mg/l/4h Oral LD50 2857 mg/kg Human Mouse 3000 mg/kg Rabbit 5340 mg/kg 5800 mg/kg Rat Aluminum hydroxide (CAS 21645-51-2) Acute Dermal LD50 Inhalation LC50 Not available Oral LD50 Rat 5000 mg/kg Distillates, petroleum, steam-cracked, polymers with light steam-cracked petroleum naphtha (CAS 68410-16-2) LC50 Not available. **LD50** Not available. Heptane (CAS 142-82-5) Acute Inhalation LC50 Rat 103 mg/l, 4 Hours LD50 Mouse 75 mg/l, 2 Hours Oral LD50 Rat 15000 mg/kg Isobutane (CAS 75-28-5) Acute Dermal Not available LD50 Inhalation LC50 Rat 658 mg/l/4h Oral LD50 Not available Methane, oxybis- (CAS 115-10-6) Acute Inhalation LC50 Mouse 494 ppm, 15 Minutes 386 ppm, 30 Minutes Rat 308.5 mg/l, 4 Hours Oral LD50 Not available #21413

**Test Results** Components **Species** Propane (CAS 74-98-6) Acute Inhalation LC50 Rat > 1442.8 mg/l, 15 Minutes Oral LD50 Not available Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2) Acute Inhalation LC50 Rat 12.6 mg/l/4h Oral LD50 Rat 5000 mg/kg Stoddard solvent (CAS 8052-41-3) Acute Dermal LD50 Rabbit > 3000 mg/kg Inhalation LC50 Rat > 5500 mg/m3 Oral LD50 Rat > 5000 mg/kg Titanium oxide (CAS 13463-67-7) Acute Dermal LD50 Not available Inhalation Not available LC50 Oral LD50 Rat 24000 mg/kg Toluene (CAS 108-88-3) Acute Dermal LD50 Rabbit 12196 mg/kg 12125 mg/kg 8390 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 7100 mg/l, 4 Hours 5320 ppm, 8 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours <= 28800 mg/m<sup>3</sup>, 4 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 12.5 mg/l/4h Oral LD50 Rat > 5580 mg/kg 636 mg/kg Skin corrosion/irritation Causes skin irritation.

Not available. **Exposure minutes** Not available. Erythema value Oedema value Not available. Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** Non-hazardous by WHMIS/OSHA criteria. **Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity** Suspected of causing cancer.

**ACGIH Carcinogens** 

2-Pentanone, 4-methyl- (CAS 108-10-1)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Acetone (CAS 67-64-1)

Aluminum hydroxide (CAS 21645-51-2)

Titanium oxide (CAS 13463-67-7)

Toluene (CAS 108-88-3)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Pentanone, 4-methyl- (CAS 108-10-1) Volume 101 - 2B Possibly carcinogenic to humans.

Stoddard solvent (CAS 8052-41-3)

Volume 47 - 3 Not classifiable as to carcinogenicity to humans.

Titanium oxide (CAS 13463-67-7)

Volume 47, Volume 93 - 2B Possibly carcinogenic to humans.

Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to

humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2-Pentanone, 4-methyl- (CAS 108-10-1)

Benzene (CAS 71-43-2)

Crystalline silica (CAS 14808-60-7)

Titanium oxide (CAS 13463-67-7)

Carcinogenic.

Carcinogenic.

Carcinogenic.

**Reproductive toxicity** Suspected of damaging the unborn child.

**Teratogenicity**Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects

(effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were

observed in the absence of maternal toxicity.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes

damage to organs through prolonged or repeated exposure.

Further information Not available.

Name of Toxicologically Not available.

**Synergistic Products** 

12. Ecological Information

**Ecotoxicity** See below

Components Species Test Results

2-Pentanone, 4-methyl- (CAS 108-10-1)

Crustacea EC50 Daphnia 170 mg/L, 48 Hours

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 492 - 593 mg/l, 96 hours

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)

Crustacea EC50 Daphnia 500 mg/L, 48 Hours

Acetone (CAS 67-64-1)

Crustacea EC50 Daphnia 13999 mg/L, 48 Hours

**Test Results** Components Species Aquatic Water flea (Daphnia magna) Crustacea EC50 21.6 - 23.9 mg/l, 48 hours Fish Rainbow trout, donaldson trout 4740 - 6330 mg/l, 96 hours LC50 (Oncorhynchus mykiss) Heptane (CAS 142-82-5) Aquatic Mozambique tilapia (Tilapia Fish LC50 375 mg/l, 96 hours mossambica) Titanium oxide (CAS 13463-67-7) Aquatic Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours Toluene (CAS 108-88-3) IC50 433 mg/L, 72 Hours Algae Algae Crustacea EC50 Daphnia 7.645 mg/L, 48 Hours Aquatic Crustacea EC50 Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours Fish LC50 Coho salmon, silver salmon 8.11 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

(Oncorhynchus kisutch)

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal Considerations

**Disposal instructions**Contents under pressure. Do not puncture, incinerate or crush. This material and its container

must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

US RCRA Hazardous Waste U List: Reference

2-Pentanone, 4-methyl- (CAS 108-10-1) U161 Acetone (CAS 67-64-1) U002 Toluene (CAS 108-88-3) U220

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

## 14. Transport Information

#### U.S. Department of Transportation (DOT)

**Basic shipping requirements:** 

UN number UN1950

Proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)

Hazard class Limited Quantity - US
Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

UN number UN1950

Proper shipping name AEROSOLS, flammable Limited Quantity - Canada

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#### IATA/ICAO (Air)

**Basic shipping requirements:** 

UN number UN1950

Proper shipping name Aerosols, flammable Hazard class Limited Quantity - IATA

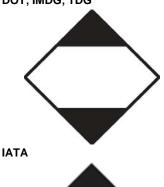
IMDG (Marine Transport)

**Basic shipping requirements:** 

UN number UN1950
Proper shipping name AEROSOLS

Hazard class Limited Quantity - IMDG

DOT; IMDG; TDG



# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

#### Canada DSL Challenge Substances: Listed substance

Isobutane (CAS 75-28-5)

Listed.

## Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

2-Pentanone, 4-methyl- (CAS 108-10-1) 1 TONNES 2-Propanol, 1-methoxy-, acetate (CAS 108-65-6) 1 TONNES Heptane (CAS 142-82-5) 1 TONNES

 Isobutane (CAS 75-28-5)
 1 TONNES

 Methane, oxybis- (CAS 115-10-6)
 1 TONNES

 Propane (CAS 74-98-6)
 1 TONNES

 Stoddard solvent (CAS 8052-41-3)
 1 TONNES

 Toluene (CAS 108-88-3)
 1 TONNES

#### **Canada WHMIS Ingredient Disclosure: Threshold limits**

2-Pentanone, 4-methyl- (CAS 108-10-1) 1 % Acetone (CAS 67-64-1) 1 % Heptane (CAS 142-82-5) 1 % Stoddard solvent (CAS 8052-41-3) 1 % Toluene (CAS 108-88-3) 1 %

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 2A, 2B

WHMIS labeling







**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-Pentanone, 4-methyl- (CAS 108-10-1) 1.0 % Toluene (CAS 108-88-3) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Toluene (CAS 108-88-3) Listed.

US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Toluene (CAS 108-88-3) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Toluene (CAS 108-88-3) Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Isobutane (CAS 75-28-5) Regulated flammable substance. Methane, oxybis- (CAS 115-10-6) Regulated flammable substance. Regulated flammable substance. Propane (CAS 74-98-6)

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

Isobutane (CAS 75-28-5) 10000 LBS 10000 LBS Methane, oxybis- (CAS 115-10-6) Propane (CAS 74-98-6) 10000 LBS

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Listed. Propane (CAS 74-98-6)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed.

US CAA Section 612 SNAP Program: Listed substance

Acetone (CAS 67-64-1) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Listed. Propane (CAS 74-98-6) Stoddard solvent (CAS 8052-41-3) Listed.

US CAA VOCs with Negligible Photochemical Activity: Listed substance

Acetone (CAS 67-64-1) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

**SARA 302 Extremely** Nο

hazardous substance

Nο

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. Toluene 108-88-3 10 - 30

Other federal regulations

Clean Water Act (CWA) Hazardous substance Priority pollutant Section 112(r) (40 CFR Toxic pollutant 68.130)

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

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

birth defects or other reproductive harm.

#### US - California Hazardous Substances (Director's): Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed.
Acetone (CAS 67-64-1) Listed.
Heptane (CAS 142-82-5) Listed.
Stoddard solvent (CAS 8052-41-3) Listed.
Toluene (CAS 108-88-3) Listed.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Benzene (CAS 71-43-2)
 Listed.

 Crystalline silica (CAS 14808-60-7)
 Listed.

 Titanium oxide (CAS 13463-67-7)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

#### US - Illinois Chemical Safety Act: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed.
Acetone (CAS 67-64-1) Listed.
Heptane (CAS 142-82-5) Listed.
Isobutane (CAS 75-28-5) Listed.
Methane, oxybis- (CAS 115-10-6) Listed.
Propane (CAS 74-98-6) Listed.
Toluene (CAS 108-88-3) Listed.

## US - Louisiana Spill Reporting List: Reportable quantity (total mass into atmosphere)

2-Pentanone, 4-methyl- (CAS 108-10-1) 1000 LBS

## US - Louisiana Spill Reporting: Listed substance

 2-Pentanone, 4-methyl- (CAS 108-10-1)
 Listed.

 Acetone (CAS 67-64-1)
 Listed.

 Heptane (CAS 142-82-5)
 Listed.

 Isobutane (CAS 75-28-5)
 Listed.

 Methane, oxybis- (CAS 115-10-6)
 Listed.

 Propane (CAS 74-98-6)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

# US - Michigan Critical Materials Register: Parameter number

Toluene (CAS 108-88-3) 00108-88-3 Listed.

## US - Minnesota Haz Subs: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Stoddard solvent (CAS 8052-41-3) Listed. Titanium oxide (CAS 13463-67-7) Listed. Toluene (CAS 108-88-3) Listed.

## US - New Jersey RTK - Substances: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Stoddard solvent (CAS 8052-41-3) Listed. Titanium oxide (CAS 13463-67-7) Listed. Toluene (CAS 108-88-3) Listed.

#### US - New York Release Reporting: Hazardous Substances: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1)

Acetone (CAS 67-64-1)

Toluene (CAS 108-88-3)

Listed.

Listed.

Listed.

## **US - North Carolina Toxic Air Pollutants: Listed substance**

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Toluene (CAS 108-88-3) Listed.

# US - Texas Effects Screening Levels: Listed substance

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed.

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6) Listed. Acetone (CAS 67-64-1) Listed. Aluminum hydroxide (CAS 21645-51-2) Listed. Distillates, petroleum, steam-cracked, polymers with Listed. light steam-cracked petroleum naphtha (CAS 68410-16-2) Heptane (CAS 142-82-5) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Quaternary ammonium compounds, Listed. bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2) Stoddard solvent (CAS 8052-41-3) Listed. Titanium oxide (CAS 13463-67-7) Listed. Toluene (CAS 108-88-3) Listed. Toluene (CAS 108-88-3) Listed.

#### US - Washington Chemical of High Concern to Children: Listed substance

#### US. Massachusetts RTK - Substance List

2-Pentanone, 4-methyl- (CAS 108-10-1)	Listed.
Acetone (CAS 67-64-1)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Propane (CAS 74-98-6)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.
Toluene (CAS 108-88-3)	Listed.

#### US. Pennsylvania RTK - Hazardous Substances

2-Pentanone, 4-methyl- (CAS 108-10-1)	Listed.
Acetone (CAS 67-64-1)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Propane (CAS 74-98-6)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Titanium oxide (CAS 13463-67-7)	Listed.
Toluene (CAS 108-88-3)	Listed.

## **US. Rhode Island RTK**

2-Pentanone, 4-methyl- (CAS 108-10-1) Listed. Acetone (CAS 67-64-1) Listed. Isobutane (CAS 75-28-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

## Inventory status

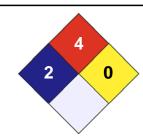
On inventory (yes/no)\* Country(s) or region Inventory name Canada Domestic Substances List (DSL) Yes Non-Domestic Substances List (NDSL) Canada No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





**Disclaimer**The information in the sheet was written based on the best knowledge and experience currently

available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty,

expressed or implied, is made and supplier will not be liable for any losses, injuries or

consequential damages which may result from the use of or reliance on any information contained

in this document.

Issue date27-February-2015Effective date28-February-2015Expiry date28-February-2018

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).