# SAFETY DATA SHEET



## 1. Identification

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Product number	1000038281	
Product identifier	SW258 Starting Fluid	
Company information	Sprayway, Inc. 1000 INTEGRAM DR Pacific, MO 63069 United States	
Company phone	1-630-628-3000	
Emergency telephone US	1-866-836-8855	
Emergency telephone outside US	1-952-852-4646	
Version #	01	
Recommended use	Not available.	
Recommended restrictions	None known.	
2. Hazard(s) identification		
Physical hazards	Elammable aerosols	Category 1

Physical hazards	Flammable aerosols	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
OSHA defined hazards	Not classified.	

#### Label elements



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Signal word	Danger	
Hazard statement	Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.	
Precautionary statement		
Prevention	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. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves.	
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Environmental hazards	Hazardous to the aquatic environment, acute Category 2 hazard	
	Hazardous to the aquatic environment, Category 2 long-term hazard	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Naphtha, (Petroleum), Hydrotreated Light		64742-49-0	40 - 60
n-Heptane		142-82-5	20 - 40
Diethyl Ether		60-29-7	10 - 20
Methylcyclohexane		108-87-2	2.5 - 10
Carbon Dioxide		124-38-9	1 - 2.5
Distillates (petroleum), Hydrotreated Light Naphthenic		64742-53-6	1 - 2.5
Butylated Hydroxytoluene		128-37-0	0.1 - 1
Other components below reportable le	evels		0.1 - 1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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. During fire, gases hazardous to health may be formed.

**Special protective equipment** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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

equipment/instructions

Fire fighting

General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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.

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.

Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	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. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
Diethyl Ether (CAS 60-29-7)	PEL	1200 mg/m3	
		400 ppm	
Methylcyclohexane (CAS 108-87-2)	PEL	2000 mg/m3	
		500 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
US. ACGIH Threshold Limit Values	;		
Components	Туре	Value	Form
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Diethyl Ether (CAS 60-29-7)	STEL	500 ppm	
	TWA	400 ppm	
Methylcyclohexane (CAS 108-87-2)	TWA	400 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Butylated Hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	

# US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
Methylcyclohexane (CAS 108-87-2)	TWA	1600 mg/m3
		400 ppm
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
		440 ppm
	TWA	350 mg/m3
		85 ppm
iological limit values	No biological exposure limits noted for	or the ingredient(s).
ppropriate engineering ontrols	Eye wash facilities and emergency s	hower must be available when handling this product.
dividual protection measures,	such as personal protective equipm	nent
Eye/face protection	Chemical respirator with organic vap	or cartridge and full facepiece.
Skin protection		
Hand protection	Wear appropriate chemical resistant supplier.	gloves. Suitable gloves can be recommended by the glove
Other	Wear appropriate chemical resistant	clothing.
<b>Respiratory protection</b>	Chemical respirator with organic vap	or cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
eneral hygiene onsiderations		bserve good personal hygiene measures, such as washing e eating, drinking, and/or smoking. Routinely wash work remove contaminants.

# 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	176.39 °F (80.22 °C) estimated
Flash point	-40.0 °F (-40.0 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.2 % estimated
Flammability limit - upper (%)	8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	85 - 100 psig @20C estimated 120 - 130 @54C estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	482 °F (250 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Heat of combustion (NFPA 30B)	35.79 kJ/g estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.703 estimated
VOC (Weight %)	94.6 % estimated

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Components	Species	Test Results
Butylated Hydroxytoluene (	CAS 128-37-0)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
		> 2000 mg/kg, 4 wk (3 x/wk)
Oral		
LD50	Mouse	2000 mg/kg
	Rat	> 2930 mg/kg
Diethyl Ether (CAS 60-29-7	)	
Acute		
Dermal		
LD50	Rabbit	> 20000 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	31300 ppm, 90 Minutes
	Rat	32000 ppm, 4 Hours

Components	Species	Test Results
Oral	-	
LD50	Rat	1200 mg/kg
	ted Light Naphthenic (CAS 64742-53-6)	
Acute		
Dermal	Dakki	
LD50	Rabbit	> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	2.18 mg/l, 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
Vethylcyclohexane (CAS 108-87-	-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
Vapor		
LC100	Rabbit	59.9 mg/l
LC50	Dog	> 4071 ppm, If <1L: Consumer Commodity Hours
		> 16.3 mg/l, If <1L: Consumer Commodity Hours
	Mouse	> 6564 ppm, If <1L: Consumer Commodity Hours
		> 26.3 mg/l, If <1L: Consumer Commodity Hours
	Rat	> 6564 ppm, If <1L: Consumer Commodity Hours
		> 26.3 mg/l, If <1L: Consumer Commodity Hours
LC50	Rat	16 mg/l, 4 Hours
Naphtha, (Petroleum), Hydrotreat <u>Acute</u> Dermal	red Light (CAS 64742-49-0)	
LD50	Guinea pig; Rabbit	> 9.4 ml/kg, 24 Hours
2000	Rabbit	> 1900 mg/kg, 24 Hours
	Παρρι	> 1900 mg/kg, 24 hours
Inhalation	Det	
LC50	Rat	> 5000 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		> 4.96 mg/l, 4 Hours
		13700 ppm, 4 Hours
Oral		
LD50	Rat	4820 mg/kg
n-Heptane (CAS 142-82-5) <u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 29.29 mg/l, 4 Hours
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Components	Species	Test Results
Oral		
LD50	Rat	> 5000 mg/kg
* Estimates for product may b	be based on additional o	component data not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	n	
<b>Respiratory sensitization</b>	Not a respiratory sen	sitizer.
Skin sensitization	This product is not ex	pected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not co	onsidered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcino	genicity
Butylated Hydroxytoluene OSHA Specifically Regulate		3 Not classifiable as to carcinogenicity to humans. <b>R 1910.1001-1050</b> )
Not regulated.		
US. National Toxicology Pro	ogram (NTP) Report o	n Carcinogens
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and enters airways.	
12. Ecological information	ı	
Ecotoxicity	Toxic to aquatic life with long lasting effects.	
Components	Spec	ies Test Results

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Components		Species	Test Results
Butylated Hydroxytoluene (C	AS 128-37-0)		
Aquatic			
Algae	IC50	Algae	6 mg/L, 72 Hours
Crustacea	EC50	Water flea (Daphnia pulex)	1.44 mg/l, 48 hours
Diethyl Ether (CAS 60-29-7)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2560 mg/l, 96 hours
Methylcyclohexane (CAS 10	8-87-2)		
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	5.8 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

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

# **Bioaccumulative potential**

Partition coefficient n	-octanol / water (log Kow)	
Diethyl Ether		0.89
Methylcyclohexane		3.61
n-Heptane		4.66
Mobility in soil No data available.		

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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.
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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### 14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	<ul> <li>Read safety instructions, SDS and emergency procedures before handling.</li> </ul>
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

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	UN number	UN1950
	UN proper shipping name	Aerosols, flammable
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	2.1
	Packing group	Not applicable.
	Environmental hazards	Yes
	ERG Code	10L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
	Packaging Exceptions	LTD QTY
IMI	DG	
	UN number	UN1950
	UN proper shipping name	AEROSOLS
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Label(s)	None
	Packing group	Not applicable.

Environmental hazardsMarine pollutantYesEmSF-D, S-USpecial precautions for userRead safety instructions, SDS and emergency procedures before handling. Read safety<br/>instructions, SDS and emergency procedures before handling. Read safetyPackaging ExceptionsLTD QTYTransport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot applicable.

DOT FLAMMABLE GAS 2 IATA; IMDG



Marine pollutant



**General information** 

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

Listed.

# 15. Regulatory information

US federal regulations

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethyl Ether (CAS 60-29-7)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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Hazard categories	Immediate Hazard - Yes Delayed Hazard - No	
	Fire Hazard - Yes	
	Pressure Hazard - Yes	
	Reactivity Hazard - No	
SARA 302 Extremely hazaro Not listed.	dous substance	
SARA 311/312 Hazardous	No	
chemical		
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
	112 Hazardous Air Pollutan	nts (HAPs) List
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release F	Prevention (40 CFR 68.130)
Diethyl Ether (CAS 60-29	9-7)	
Safe Drinking Water Act (SDWA)	Not regulated.	
Drug Enforcement Adm Chemical Code Numbe		sential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Diethyl Ether (CAS 6		6584 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Diethyl Ether (CAS 6		35 %WV
DEA Exempt Chemical		
Diethyl Ether (CAS 6	60-29-7)	6584
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JS state regulations		
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US - California Proposition 65 - CRT: Listed date/Carcinogenic substance				
Benzene (CAS 71-43-2)	Listed: February 27, 1987			
Ethyl Benzene (CAS 100-41-4)	Listed: June 11, 2004			
US - California Proposition 65 - CRT: Listed date/Developmental toxin				
Benzene (CAS 71-43-2)	Listed: December 26, 1997			
Toluene (CAS 108-88-3)	Listed: January 1, 1991			
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin				
Benzene (CAS 71-43-2) Listed: December 26, 1997				

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	12-27-2018
Version #	01
Disclaimer	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.
<b>Revision information</b>	Product and Company Identification: Alternate Trade Names