

SAFETY DATA SHEET

FAST REDUCER

2018

SMARK COMPANY

8636 OTIS ST. SOUTH GATE CA 90280

TEL: (323)268-8184 FAX: (323)268-8158

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Product Name: FAST REDUCER

Revision Date: 2018

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: FAST REDUCER

SYNONYMS: NONE

COMPANY IDENTITY: SMARK CHEMICALS
COMPANY ADDRESS: 8636 OTIS ST
COMPANY CITY: SOUTH GATE CA 90280

COMPANY PHONE: 1-323-268-8184 **FAX:** 1-323-268-8158

EMERGENCY NUMBER (CHEMTREC): 1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATIONS:

HMIS Rating

(Product as packaged):

	HMIS
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

RATING CHART:

0=Minimal 1=Slight

2=Moderate

3=Serious

4=Fxtreme

*=Chronic Health Effect

F=Splash proof Safety glasses, Butyl gloves, synthetic apron, NIOSH Respirators.



Physical hazard:

Flammable liquids

Health hazards Serious eye damage/eye irritation

Specific target organ toxicity, single exposure

Specific target organ toxicity, single exposure

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Category 2 Category 2A

Category 3 respiratory tract irritation

Category 3 narcotic effects

Label Elements

Signal Word: Danger

Hazard Symbol:





Hazard statement

Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

Wear protective gloves/eye protection/face protection.

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SECTION 2. HAZARDS IDENTIFICATION (CONTINUED)

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

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

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

Keep cool. Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may

ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical identity	CAS number	Content in percent (%)*
Acetone	67-64-1	60-<70
PCBTF, P-Chlorobenzotrifluoride	98-56-6	30-<40

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

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 Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and

persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Eye contact

Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

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

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to

hospital. Keep victim under observation.

Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and\ take precautions to protect themselves. Wash

contaminated clothing before reuse.

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SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing media Specific hazards arising from the chemical

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

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

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures.

This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Fire fighting equipment/instructions Specific methods General fire hazards

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapor.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof

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SECTION 7. HANDLING AND STORAGE (CONTINUED)

equipment. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical

Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against

Ignitions Arising out of Static, Lightning, and Stray Currents" or National

Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National

Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

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

 Components
 Type
 Value

 ACETONE (CAS 67-64-1)
 PEL
 2400 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

 Components
 Type
 Value

 ACETONE (CAS 67-64-1)
 STEL
 750 ppm

 TWA
 500 ppm

 US. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value

 ACETONE (CAS 67-64-1)
 TWA
 590 mg/m3

 250 ppm
 250 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components Value Determinant Specimen Sampling Time ACETONE (CAS 67-64-1) 50 mg/l Acetone Urine *

* - For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full face piece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing.

Respiratory protection Thermal hazards Chemical respirator with organic vapor cartridge and full face piece. Wear appropriate thermal protective clothing, when necessary.



Work & Hygienic Practices: When using do not 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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid. Form Liquid.

Clear colorless or nearly colorless Color

Characteristic. Odor Odor threshold Not available. рΗ Not available.

Melting point/freezing point -99.64 °F (-73.14 °C) estimated

Initial boiling point and boiling

186.6 °F (85.89 °C) estimated Range Flash point 39.0 °F (3.9 °C) estimated

Evaporation rate Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 1.3 % estimated Flammability limit – upper (%) 8.3 % estimated Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 161.25 hPa estimated

Vapor density Not available. Relative density Not available. Solubility(ies)

Solubility (water)

Partition coefficient

(n-octanol/water) Not available

Auto-ignition temperature 654.35 °F (345.75 °C) estimated

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 8.25 lbs/gal estimated **Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Oxidizing properties Not oxidizing. Percent volatile 100 % Specific gravity 0.93

0 lbs/gal (0 g/l) Coating VOC VOC

0 lbs/gal (0 g/l) Material VOC **VOC** composite vapor Pressure 181.7 mm Hg at 68°F (Exempt)

SECTION 10. STABILITY & REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity:

Chemical stability Material is stable under normal conditions. Possibility of hazardous reactions Hazardous polymerization does not occur.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

Conditions to avoid

Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

Not available.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system.

Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard

Symptoms related to the Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause

toxicological characteristics respiratory irritation.

Information on toxicological effects

Acute toxicity Narcotic effects. May cause respiratory irritation.

Components Species Test Results

ACETONE (CAS 67-64-1)

<u>Acute</u>

Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat > 20 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

PCBTF, P-Chlorobenzotrifluoride (CAS 98-56-6)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat 4468 ppm, 4 hours (vapor)

Components Species Test Results

Oral

LD50 Rat 13000 mg/kg

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

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated

Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure
Specific target organ toxicity -

May cause respiratory irritation. May cause drowsiness and dizziness.

repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or

frequent spills can have a harmful or damaging effect on the environment.

Test Results Components **Species**

ACETONE (CAS 67-64-1)

Acute

Other	LC50	Micro-organisms	> 100 mg/l
Aquatic			
Acute			
Algae	LC50	Algae	> 100 mg/l
Crustacea	LC50	Crustacea	> 100 mg/l
Fish	LC50	Fish	> 100 mg/l
Chronic			•
Crustacea	NOEC	Crustacea	10 - 100 mg/l

PCBTF, P-Chlorobenzotrifluoride (CAS 98-56-6)

Aquatic

Acute Algae EC50 Green algae (Chlamydomonas variabilis) > 0.41 mg/l, 72 hours Crustacea EC50 Daphnia magna 2 mg/l, 48 hours Fish EC50 Zebra danio (Danio rerio) 3 mg/l, 96 hours Chronic NOEC Green algae (Chlamydomonas variabilis) 0.41 mg/l, 21 days Algae

Persistence and degradability Bioaccumulative potential

No data is available on the degradability of this product.

Partition coefficient n-octanol / water (log Kow)

ACETONE 0.2, (log Pow)

PCBTF, P-Chlorobenzotrifluoride 3.7

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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 Waste from residues / unused The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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.

^{*} Estimates for product may be based on additional component data not shown.

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SECTION 14. TRANSPORT INFORMATION

DOT

UN number UN1263

UN proper shipping name Paint related material including paint thinning, drying, removing, or reducing compound

| Class | 3 | Subsidiary risk | - | Label(s) | 3 | Packing group | | |

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 149, B52, IB2, T4, TP1, TP8, TP28

Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA
UN number UN1263

UN proper shipping name Paint related material (including paint thinning or reducing compounds)

Allowed.

Class 3
Subsidiary risk Packing group II
Environmental hazards Yes
ERG Code 3L

Special precautions for user

Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo Aircraft

Aircrat

Cargo aircraft only Allowed

IMDG UN number UN1263

UN proper shipping name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT

RELATED MATERIAL (including paint thinning or reducing compound)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||

Environmental hazards

Marine pollutant

Yes
F-E, S_-E

precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Special precautions for user Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code Not established.

DOT:

EmS

IATA; IMDG

Marine pollutant



General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant

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SECTION 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)

PCBTF, P-Chlorobenzotrifluoride (CAS 98-56-6) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

ACETONE (CAS 67-64-1)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance\

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air

Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental

Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and

Chemical Code Number

ACETONE (CAS 67-64-1)

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1) 6532

US state regulations

Not listed.

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a))

ACETONE (CAS 67-64-1)

US. Massachusetts RTK - Substance List

ACETONE (CAS 67-64-1)

US. New Jersey Worker and Community Right-to-Know Act

ACETONE (CAS 67-64-1)

PCBTF, P-Chlorobenzotrifluoride (CAS 98-56-6)

US. Pennsylvania Worker and Community Right-to-Know Law

ACETONE (CAS 67-64-1) US. Rhode Island RTK

ACETONE (CAS 67-64-1)

US. California Proposition 65

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

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

BENZENE (CAS 71-43-2) Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

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SECTION 15. REGULATORY INFORMATION

International Inventories

Country(s) or region Inventory name On inventory (yes/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)

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).

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 2, HEALTH (HMIS): 2, FLAMMABILITY: 3, PHYSICAL HAZARD: 0

(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 2 (Hazards Identification). Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

MANUFACTURER 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 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.

APPROVED BY: Safety And Environmental Department. PREPARED BY: Safety And Environmental Department. ADDITIONAL MSDS INFORMATION: New (SDS)

DATE OF PREPARATION OR LAST REVISION: January, 2018.