

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 1 of 12

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **LDC-70 Classic Plus™**

Product Code(s) : F2107

Recommended use of the chemical and restrictions on use

: Spray foam.
Professional Use Only
Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number of the manufacturer:

Huntsman Building Solutions
3315 E. Division Street,
Arlington, TX 76011
Tel: 817-640-4900 , 888-224-153
sdsinfo@huntsmanbuilds.com

Name, address, and telephone number of the supplier:

Supplier's Telephone # :
24 Hr. Emergency Tel # : (613) 996-6666

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Hazard classification:

Skin Corrosion/Irritation - Category 1
Eye Damage/Irritation - Category 1

Label elements

Hazard pictogram(s)



Signal Word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage.

Precautionary statement(s)

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 2 of 12

SAFETY DATA SHEET

Do not breathe dust or mist.
Wash thoroughly after handling.
Wear protective gloves/clothing and eye/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs, get medical advice/attention.
Specific treatment (see this label).
Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:
May cause respiratory tract irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	Phosphoric trichloride, reaction products with propylene oxide	1244733-77-4	10.0 - 20.0
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diami	6711-48-4	1.0 - 10.0
2-Dimethylamino ethanol	2-(Dimethylamino)ethanol	108-01-0	1.0 - 5.0
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine	3855-32-1	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : If on skin: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
- Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 3 of 12

SAFETY DATA SHEET

Most important symptoms and effects, both acute and delayed

- : Causes skin burns. Contact may cause redness, swelling and a painful sensation. Can cause irritation, redness, tearing, and blurred vision and/or eye damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Symptoms may include redness, itching and swelling. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO₂); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Hazardous combustion products

- : Carbon oxides. Nitrogen oxides.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- : Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 4 of 12

SAFETY DATA SHEET

- : Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking.
- Incompatible materials** : Strong oxidizing agents. Strong acids. Isocyanates.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
2,2,4-Trimethyl-1,3-pentanediolemono(2-methylpropanoate)	N/Av	N/Av	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	N/Av	N/Av	N/Av	N/Av
2-Dimethylamino ethanol	N/Av	N/Av	N/Av	N/Av
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection

- : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing dust, mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear amber liquid.
- Odour** : Amine odor.

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 5 of 12

SAFETY DATA SHEET

Odour threshold : No information available.

pH : 10 - 11

Melting/Freezing point : No information available.

Initial boiling point and boiling range

: N/Av

Flash point : N/Av

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)
: Not applicable.

Upper flammable limit (% by vol.)
: Not applicable.

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : N/Av

Vapour density : N/Av

Relative density / Specific gravity

: 1.12

Solubility in water : N/Av

Other solubility(ies) : No information available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: No information available.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Viscosity : 900 Cps @ 25°C

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents. Strong acids. Isocyanates.

Hazardous decomposition products

: Carbon oxides Nitrogen oxides (NOx).

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 6 of 12

SAFETY DATA SHEET

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory tract irritation.

Sign and symptoms ingestion

: May cause gastrointestinal discomfort.

Sign and symptoms skin

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:Skin Irritation - Category 1 - Causes severe skin burns.

Sign and symptoms eyes

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:Eye Damage/Irritation - Category 1 - Causes serious eye damage.

Potential Chronic Health Effects

: Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: No information available.

Toxicological data

:

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 7 of 12

SAFETY DATA SHEET

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
2,2,4-Trimethyl-1,3-pentane diolmono(2-methylpropanoate)	5mg/L/4H	500mg/kg	1230mg/kg
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	N/Av	1620 µL/kg	N/Av
2-Dimethylamino ethanol	6.1 mg/L 4 h	1803 mg/kg	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	N/Av	N/Av	N/Av

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : The product itself has not been tested.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
2,2,4-Trimethyl-1,3-pentanediol mono(2-methylpropanoate)	1244733-77-4	N/Av	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	N/Av	N/Av	N/Av
2-Dimethylamino ethanol	108-01-0	96 Hr LC50 Pimephales promelas: 81 mg/L [static]	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	N/Av	N/Av	N/Av

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
2,2,4-Trimethyl-1,3-pentanediol mono(2-methylpropanoate)	1244733-77-4	EC50/48h/Daphnia magna (Water flea) = 63 mg/L	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	N/Av	N/Av	N/Av
2-Dimethylamino ethanol	108-01-0	48 Hr EC50 Daphnia magna: 98.77 mg/L	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	N/Av	N/Av	N/Av

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 8 of 12

SAFETY DATA SHEET

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
2,2,4-Trimethyl-1,3-pentenediol mono(2-methylpropanoate)	1244733-77-4	N/Av	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	N/Av	N/Av	N/Av
2-Dimethylamino ethanol	108-01-0	72 Hr EC50 Desmodium subspicatus: 35 mg/L	N/Av	N/Av
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	N/Av	N/Av	N/Av

Persistence and degradability

: Not expected to be rapidly biodegradable.

Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
2,2,4-Trimethyl-1,3-pentenediol mono(2-methylpropanoate) (CAS 1244733-77-4)	N/Av	N/Av
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (CAS 6711-48-4)	N/Av	N/Av
2-Dimethylamino ethanol (CAS 108-01-0)	-0.55 at 23 °C	N/Av
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (CAS 3855-32-1)	N/Av	N/Av

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.





SECTION 14. TRANSPORTATION INFORMATION

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 9 of 12

SAFETY DATA SHEET

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	1244733-77-4	Yes	N/Ap	N/Av	No	NS
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	Yes	N/Ap	N/Av	No	NS
2-Dimethylamino ethanol	108-01-0	Yes	N/Ap	N/Av	No	NS
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	Yes	N/Ap	N/Av	No	NS

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 10 of 12

SAFETY DATA SHEET

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
2,2,4-Trimethyl-1,3-pentane diolmono(2-methylpropanoate)	1244733-77-4	No	N/Ap	No	No	No	NS	No	No
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	No	N/Ap	No	No	No	No	No	No
2-Dimethylamino ethanol	108-01-0	No	N/Ap	No	Yes	No	Yes	Yes	No
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this Material Safety Data Sheet contains all the information required by the CPR.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
2,2,4-Trimethyl-1,3-pentane diolmono(2-methylpropanoate)	1244733-77-4	911-815-4	Present	Present			Present	
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	229-761-9	Present	Present		2002-1-528; KE-05-0505	Present	
2-Dimethylamino ethanol	108-01-0	203-542-8	Present	Present	(2)-353; (2)-297	KE-11494	Present	HSR002971
1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-	3855-32-1	223-362-3	Present	Present	(3)-3284; (2)-3284	KE-23515	Present	

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate

LDC-70 Classic Plus™

SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 11 of 12

SAFETY DATA SHEET

CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency
ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform Chemical Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References :

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
2. International Agency for Research on Cancer Monographs, searched 2015.
3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012 version.
6. California Proposition 65 List - December 26, 2014 version

Preparation Date (mm/dd/yyyy)

: 09/24/2015

LDC-70 Classic Plus™


SDS Preparation Date (mm/dd/yyyy): 09/24/2015

Page 12 of 12

SAFETY DATA SHEET

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: Huntsman Building Solutions 3315 E. Division Street, Arlington, TX 76011 Tel: 817-640-4900 , 888-224-153</p>	
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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