SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance Residual Fuel Oils - All Grades (Refer to Synonyms for Product Name)

649-024-00-9 Identification number

01-2119474894-22-0031 Registration number

2710190605

Harmonized Code

Synonyms Diesel Fuel #2 **Print Date** May 23, 2014 **Revision Date** May 13, 2020

SDS number 2003 Version number 07

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory test sample

Uses advised against: Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

1.3. Details of the supplier of the safety data sheet

Supplier

Clark Laboratories 1801 Route 51 South Jefferson Hills, PA 15025 412-387-1001

1.4. Emergency telephone

number

Transportation Emergency Response

Chemtrec- 24 hour emergency response: (800)424-9300

International Collect: +1 703 741 5970 SDS Assistance Email: sds@clarktesting.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Carc. Cat. 2;R45, Repr. Cat. 3;R63, Xn;R20-48/21, R66, N;R50/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

exposure

Flammable liquid and Vapor Category 3 H226-Flammable Liquid & Vapor Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.

H373 - May cause damage to Category 2 (blood, thymus, liver) Specific target organ toxicity - repeated

organs (blood, thymus, liver) through prolonged or repeated

exposure.

H304 - May be fatal if swallowed Category 1 Aspiration hazard

and enters airways.

Environmental

Hazard: Not Classified

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause cancer. Also harmful by inhalation. Also harmful: danger of serious damage to health

by prolonged exposure in contact with skin. Possible risk of harm to the unborn child. Repeated

exposure may cause skin dryness or cracking.

Environmental hazards

Specific hazards

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Breathing of high vapour concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness. Prolonged

or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil

acne. Components of the product may be absorbed into the body through the skin.

Main symptoms In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and

nausea. Defatting of the skin. Dermatitis. Ingestion may cause irritation and malaise.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Fuel oil, residual **Identification number** 649-024-00-9

Hazard pictograms



Signal word DANGER

Hazards Statements: Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Toxic in inhaled.

May cause cancer

May cause damage to organs through prolonged or repeated exposure.

Causes skin irritation.

Toxic to aquatic life with long lasting effects

Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces- no smoking.

Do not breather dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye

Protection/face protection.

Use only outdoors or in well ventilated area.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only outdoors or in a well ventilated area.

Use only non-sparking tools.

Do not handle until all safety precautions have been read and understood.

Obtain special instruction before use.

Take precautionary measures against static discharge.

Wash face, hands and any exposed skin thoroughly after handling.

Keep cool.

Response In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF exposed or concerned: Get medical advice/attention. IF skin irritation occurs: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.



Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs:

Get medical attention/advice.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or

Doctor. Do not induce vomiting.

Storage Store in a well ventilated place. Keep cool. Store locked up.

Keep container tightly closed.

Dispose of contents/container at an approved waste

Disposal plant.

2.3. Other hazards Not a PBT or vPvB substance or mixture. Hydrogen sulfide (H2S) can accumulate in the

headspace of storage tanks and reach potentially hazardous concentrations. Static accumulator - Static accumulating flammable materials can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite material and vapor may cause flash fire (or

explosion).

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Fuel oil, residual	100	68476-33-5 270-675-6	01-2119474894-22-0031	649-024-00-9	



SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get

medical attention.

If there is any suspicion of inhalation of H2S:

Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures.

Remove casualty to fresh air as quickly as possible.

Immediately begin artificial respiration if breathing has ceased.

Provision of oxygen may help.

Obtain medical advice for further treatment.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water.

> Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyelids wide apart. Get medical attention if irritation develops or persists.

Ingestion Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not

induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take

these instructions.

4.2. Most important symptoms and effects, both acute and

delayed

4.3. Indication of any immediate medical attention and special treatment needed Defatting of the skin. May cause eye irritation on direct contact. In high concentrations, vapours are narcotic and may cause headache, fatique, dizziness and nausea. May cause damage to organs () through prolonged or repeated exposure.

Treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards The product is combustible, and heating may generate vapours which may form explosive

Water spray, foam, dry powder or carbon dioxide.

vapour/air mixtures. Material will float and can be re-ignited on surface of water.

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

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

5.2. Special hazards arising

from the substance or mixture

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised. Sulfur Oxides (SOx). Nitrogen

Oxides (NOx).

5.3. Advice for firefighters Special protective equipment for firefighters

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

Special fire fighting procedures

Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Fire and Explosion Hazard Data before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g., by vacuuming).



Stop leak if it can be done without risk. Use water spray to disperse vapors. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies.

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use non-sparking tools and explosion-proof equipment. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. (Subject to applicability) If sulfur compounds are suspected to be present in the product, check the atmosphere for H2S content. Access to work area should be restricted to people handling the product only. Should be handled in closed systems, if possible. Avoid inhalation of vapors and contact with skin, eyes and clothing. Avoid release to the environment. Wear appropriate personal protective equipment. Immediately change contaminated clothes. Do not eat, drink or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames and high temperatures. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Distribution of a substance. Formulation & (re) packaging of substances and mixtures. Manufacture of substance. Use as a Fuel.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Bulgaria

Material	Туре	Value	
Fuel oil, residual (CAS 68476-33-5)	TWA	300 mg/m3	
Czech Republic			
Material	Туре	Value	
Fuel oil, residual (CAS 68476-33-5)	Ceiling	1000 mg/m3	
	TWA	400 mg/m3	
Iceland			
Material	Туре	Value	
Fuel oil, residual (CAS 68476-33-5)	Italy		



TWA

180 mg/m3

25 ppm

Material Type Value

Fuel oil, residual (CAS 68476-33-5)

Romania

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Derived no-effect level (DNEL)

Material	Type	Route	Value	Form
Fuel oil, residual (CAS 68476-33-5)	Workers			Long term exposure systemic effects
		Inhalation	4700 mg/m³/15min	Aerosol, Acute exposure systemic effects
		Inhalation	Inhalation 0,12 mg/m³/8h	Aerosol, Long term exposure systemic effects

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protective equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective equipment. Keep working clothes separately. Launder contaminated clothing before reuse.

Eye/face protection

Skin protection
- Hand protection

Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Viton, Polyurethane, Nitrile rubber.

Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear suitable gloves tested to EN374.

- Other Full body suit and boots are recommended when handling large volumes or in emergency

situations. Flame retardant protective clothing is recommended.

Respiratory protection In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with

combination filter (type A2/P2) can be used. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other

circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using, do not eat, drink or smoke. Wash hands after handling. Launder contaminated

clothing before reuse. Private clothes and working clothes should be kept separately. Handle in

accordance with good industrial hygiene and safety practices. Follow up on any medical

surveillance requirements.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear to straw, May



contain red dye

Physical state Liquid. **Form** Liquid. Colour Clear to straw,

May contain red dye

Odour Hydrocarbon **Odour threshold** Not available. Not applicable. Melting point/freezing point Not available.

Initial boiling point and boiling

160 - 315 °C (320 - 600 °F)

range

>61 °C 141 °F estimated, ASTM D93 Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Non flammable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper (%)

Not available.

Not available.

Vapour pressure < 0,07 psi estimated

> 1 estimated Vapour density Relative density Not available. Solubility(ies) Insoluble in water. **Partition coefficient**

(n-octanol/water)

Not applicable.

Auto-ignition temperature No data available Not available. **Decomposition temperature**

1.9 -4.1 mm²/s (40°C) Viscosity

Explosive properties Not explosive. Oxidizing properties Not oxidizing.

9.2 Other information

810.00 - 880.00 kg/m³ (15 °C) **Density**

300 ppm

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize,

cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static

electricity, or other sources of ignition; they may explode and cause injury or death.

10.5. Incompatible materials Strong acids. Strong oxidizers such as nitrates, chlorates, peroxides.

10.6. Hazardous

decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**



Information on likely routes of exposure

Ingestion Ingestion may cause irritation and malaise.

Inhalation Harmful if inhaled. In high concentrations, vapours and spray mists are narcotic and may cause

headache, fatigue, dizziness and nausea.

Skin contact Repeated exposure may cause skin dryness or cracking. May be absorbed through the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms Skin irritation. Defatting of the skin. Rash. May cause eye irritation on direct contact. In high

concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness

and nausea.

11.1. Information on toxicological effects

Acute toxicity Harmful if inhaled.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.



SECTION 12: Ecological information

12.1. Oil spills are generally hazardous to the environment. **Toxicity Product Species Test results** Fuel oil, residual (CAS 68476-33-5) Aquatic Algae EL50 Pseudokirchneriella subcapitata 0,75 mg/l, 72 Hours Crustacea **EL50** Daphnia magna 2 mg/l, 48 Hours **LL50** Fish Oncorhynchus mykiss 79 mg/l, 96 Hours 12.2. The degradability of the product has not been stated. Persi stence and degradability 12.3. Bioaccumulative potential No data available on bioaccumulation. Not available. Partition coefficient n-octanol/water (log Kow) Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil Not available. Mobility in general The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will spread in the atmosphere. 12.5. Results of PBT Not a PBT or vPvB substance or mixture. and vPvB assessment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

12.6. Other adverse effects

Residual waste Dispose of in accordance with local regulations.

environment.

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

emptied.

EU waste code 13 07 03*

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

Very toxic to aquatic life with long lasting effects. Oil spills are generally hazardous to the

disposal company.

Disposal methods/information Dispose in accordance with all applicable regulations. This material and its container must be

disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground.

SECTION 14: Transport information

Environmentally hazardous substances may be shipped as non restricted when meeting the descriptions of UN3082 as they are not subject to the IMO-IMDG or IATA/ICAO Codes when transported in packaging that does not exceed 5L or 5kg net and the packaging used meets defined standards (Special Provision A197)

ADR

14.1. UN number UN3082

14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (Fuel oil, residual)

name

14.3. Transport hazard

9

class(es)

Subsidiary class(es) 14.4. Packing group Ш

14.5. Environmental hazards Yes



Tunnel restriction code Labels required 14.6. Special precautions for user

RID

14.1. UN number



14.2. Environmental hazards Yes

Read safety instructions, SDS and emergency procedures before handling.

9 Labels required

UN3082

Environmentally Hazardous Liquid, N.o.s. (Fuel oil, residual)

14.3. Special precautions

for user 9

ADN

14.1. UN number Ш 14.2. UN proper shipping

14.3. Transport hazard

class(es)

Subsidiary class(es) 14.4. Packing group

14.5. Environmental hazards Yes Labels required

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN3082

14.2. UN proper shipping

name

Environmentally hazardous substance, liquid, n.o.s. (Fuel oil, residual)

14.3. Transport hazard

class(es)

Subsidiary class(es) Ш 14.4. Packing group

14.5. Environmental hazards Yes Labels required 9 **ERG** code 9L

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

IMDG

14.1. UN number UN3082

14.2. UN proper shipping

name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Residues (petroleum),

atmospheric)

9

14.3. Transport hazard

class(es)

Subsidiary class(es) 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant Yes

Labels required 9 **EmS** F-A, S-F

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Not applicable. However, this product is a liquid and if transported in bulk covered under

MARPOL 73/78, Annex I.

Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II Not listed.



Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Fuel oil, residual (CAS 68476-33-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Fuel oil, residual (CAS 68476-33-5)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Fuel oil, residual (CAS 68476-33-5)

Directive 94/33/EC on the protection of young people at work

Fuel oil, residual (CAS 68476-33-5)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. 96/82/EC (Seveso

II) Directive; Part 2 (Classified Substances) - Extremely Flammable

National regulations Young people under 18 years old are not allow to work with this product according to the EU

Directive 94/33/EC on the protection of young people at work. Pregnant women should not work

with the product, if there is the least risk of exposure.

15.1. Chemical safetyFor this substance a chemical safety assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008. DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References Chemical safety report.

CLP files - http://concawe.org/

Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-statements under Sections 2 to 15



The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

R20 Harmful by inhalation. R45 May cause cancer.

R48/21 Harmful: danger of serious damage to health by prolonged exposure in contact with skin.

R63 Possible risk of harm to the unborn child.

R66 Repeated exposure may cause skin dryness or cracking. H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

This safety data sheet **contains** revisions in the following section(s): 2, 3, 5, 7, 11, 12.



NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet Adequate training and instruction should be given by you to your employees and affected personnel. Appropriate warnings and safe handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the fitness for use of the material, or the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS. The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Completed by Clark PTP Staff

NO ANNEX

