SAFETY DATA SHEET

1. Identification

Product identifier Index Liquid At-Plant Insecticide

Other means of identification

SDS number 488_v2.0

Synonym(s) Chlorethoxyfos + Bifenthrin Liquid Insecticide

Recommended use Organophosphate insecticide. **Recommended restrictions** No other uses are advised.

Keep out of the Reach of Children!

EPA Registration number EPA: 5481-587

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name AMVAC Chemical Corporation Address 4100 E Washington Blvd

Los Angeles, CA 90023 USA

Telephone AMVAC Chemical Corp 323-264-3910

AMVAC Chemical Corp 323-268-1028 (FAX)

Website www.Amvac-Chemical.com

E-mail CustServ@Amvac-Chemical.com

Emergency phone number Medical 888-681-4261

CHEMTREC® (USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 3

Acute toxicity, dermal Category 1
Acute toxicity, inhalation Category 2

800-424-9300

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Toxic if swallowed.

Fatal in contact with skin.

Fatal if inhaled.

Precautionary statement Prevention

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

Do not breathe mist or vapor.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

Response Specific treatment is urgent (see this label).

If swallowed: Immediately call a poison center/doctor. Rinse mouth.

If on skin: Wash with plenty of water. Take off immediately all contaminated clothing and wash it

before reuse. Immediately call a poison center/doctor.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Collect spillage.

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

Store locked up.

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

Hazard(s) not otherwise

Very toxic to aquatic life.

classified (HNOC) Very toxic to aquatic life with long lasting effects.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
O,O-Diethyl O-(1,2,2,2-tetrachloroethyl)phospho rothioate	Chlorethoxyfos	54593-83-8	25.8
[1 alpha, 3 alpha(z)]-(+ -)-(2-Methyl[1,1'-biphenyl]-3-yl)meth yl 3-(2-chloro- 3,3,3-trifluoro-1-propenyl)-2,2-dimet hylcyclopropanecarboxylate		82657-04-3	4.2
Propylene glycol		57-55-6	2 - < 6
Other components below reportable	levels		60 - < 70

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contactDo not handle without appropriate protection (see First Aid/General information). Remove

contaminated clothing immediately and wash skin with soap and water. Call a physician or poison

control center immediately. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

advice from poison control center. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

This is a cholinesterase inhibiting organophosphorous pesticide. May cause weakness, headache, tightness in chest, blurred vision, non-reactive pinpoint pupils, salivation, sweating, nausea,

vomiting, diarrhea and abdominal cramps. Unconsciousness and death. Prolonged exposure may

cause chronic effects.

Material name: Index Liquid At-Plant Insecticide

SDS US

1455 Version #: 2.0 Revision date: Mar-29-2017 Issue date: Mar-29-2017 2 / 10

Indication of immediate medical attention and special treatment needed

This product is an Organophosphate (OP) Insecticide. Do not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information.

Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazine, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube. Keep victim under observation. Keep victim warm. Symptoms may be delayed.

General information

This product is a Cholinesterase Inhibitor. A physician should be contacted in all cases of exposure to the technical and its formulations.

Do Not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

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

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

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. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation, 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

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.

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Siphon the spilled liquid into a recovery drum for reuse or disposal, depending on the circumstances. Use a non-combustible material like vermiculite, sand or earth to soak up the remaining product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5%) and detergent.

Environmental precautions

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

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or

supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form	
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.	

Biological limit values
Appropriate engineering
controls

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

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

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Nitrile gloves are recommended (minimum thickness

0.40 mm). Wash when contaminated. Dispose of gloves when contaminated inside, when perforated or when contamination outside cannot be removed. Always wash hands before eating,

drinking, smoking or using the toilet.

Other Wear appropriate chemical resistant clothing (see label).

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA). Use a NIOSH/MSHA

approved dust/mist filtering respirator if there is a risk of exposure to dust/fume at levels exceeding

the exposure limits.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. 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. Contaminated work clothing

should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Encapsulated suspension.

Color An off-white to straw yellow

Odor Slight Sulfurous
Odor threshold Not available.

pH 8.2 (1% dispersion in water)

Material name: Index Liquid At-Plant Insecticide

SDS US

Melting point/freezing point < 32 °F (< 0 °C) (water based suspension) Initial boiling point and boiling > 212 °F (> 100 °C) (water based suspension)

range

Not applicable (water based suspension) Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 1.09E-02 hPa estimated

Not available. Vapor density Not available. Relative density

Solubility(ies)

Miscible Solubility (water) **Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available.

Other information

Bulk density 9.35 lb/gal 1.12 g/cm3 **Density**

Oxidizing properties No oxidizing properties.

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 Hazardous polymerization does not occur.

reactions Conditions to avoid

Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known. This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED BREATHING APPARATUS when these

conditions are present.

11. Toxicological information

Information on likely routes of exposure

Inhalation Fatal if inhaled.

Skin contact Fatal in contact with skin.

Direct contact with eyes may cause temporary irritation. Eve contact

Toxic if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion; in extreme cases,

unconsciousness, convulsions, severe respiratory depression and death may occur.

Information on toxicological effects

Fatal if inhaled. Fatal in contact with skin. Toxic if swallowed. Acute toxicity

Test Results Product Species

Index Liquid At-Plant Insecticide

Acute Dermal Liquid

LD50 Rat < 50 mg/kg Female (Tox Cat I)

Material name: Index Liquid At-Plant Insecticide

Product	Species	Test Results
Inhalation		
Mist		
LC50	Rat	0.05 - 0.52 mg/l (Tox Cat II)
Oral		
Liquid		

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

Rat

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

LD50

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Not a sensitizer.

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

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. EPA has classified Bifenthrin as a class C carcinogen, a possible human carcinogen. None of the following agencies have classified Bifenthrin as carcinogenic:

55 mg/kg (Tox Cat III)

IARC, NTP, OSHA or ACGIH.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects None known.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components Species Test Results

[1 alpha, 3 alpha(z)]-(+ -)-(2-Methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-

3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS 82657-04-3)

Aquatic

Crustacea LC50 Water flea (Ceriodaphnia dubia) 0 - 0.0002 mg/l, 48 hours

Water flea (Daphnia magna) 0.0001 - 0.0009 mg/l, 48 hours

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

Bioaccumulative potential

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.

Material name: Index Liquid At-Plant Insecticide

SDS US

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

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 methods/information).

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.

14. Transport information

DOT

UN3018 **UN number**

UN proper shipping name

Organophosphorus pesticides, liquid, toxic (Chlorethoxyfos, Bifenthrin)

Transport hazard class(es)

6.1(PGI, II) Class

Subsidiary risk Label(s) 6.1 **Packing group Environmental hazards**

> Marine pollutant No

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

N76, T14, TP2, TP13, TP27 Special provisions

None Packaging exceptions Packaging non bulk 201 Packaging bulk 243

IATA

UN3018 **UN number**

UN proper shipping name Transport hazard class(es)

Organophosphorus pesticides, liquid, toxic (Chlorethoxyfos, Bifenthrin)

Class

Subsidiary risk Label(s) 6.1 Packing group

Environmental hazards Yes, when shipped over large bodies of water in bulk

6.1(PGI, II)

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Not established.

IMDG

UN number UN3018

UN proper shipping name Transport hazard class(es) Organophosphorus pesticides, liquid, toxic (Chlorethoxyfos, Bifenthrin), MARINE POLLUTANT

6.1(PGI, II) Class

Subsidiary risk 6.1 Label(s) Packing group **Environmental hazards**

Marine pollutant Yes

Not available. **EmS**

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

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

the IBC Code

DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

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

This product is registered under EPA/FIFRA Regulations as a RESTRICTED USE PESTICIDE. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

DANGER: Fatal if absorbed through skin or inhaled. May be fatal if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear coveralls over long-sleeved shirt and long pants, socks, chemical resistant footwear, and chemical resistant gloves (such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or Viton ≥ 14 mils). Remove and wash contaminated clothing before reuse. Wear pesticide respirator jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health. For handling activities, use a non-powered air purifying canister-type respirator equipped with a R-, or P-series air-purifying filter. When mixing or loading or applying this product to turf via tractor-drawn spreader, wear a dust mask.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish, and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, or to areas where surface water is present (except for application to cranberry bogs) or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
[1 alpha 3 alpha(z)]-(+	82657-04-3	4.2

-)-(2-Methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecar boxylate

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

(SDWA)

Not regulated.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Canada Domestic Substances List (DSL) No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 Mar-29-2017
Revision date Mar-29-2017

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 2.0

Further informationNot available. **HMIS® ratings**Health: 4*
Flammability: 0

Physical hazard: 0

NFPA ratings Health: 4

Flammability: 0 Instability: 0

Disclaimer

This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability

or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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CHEMTREC is a trademark of the American Chemistry Council, Inc.

HMIS is a trademark of the American Coatings Association.

NFPA is a trademark of the National Fire Protection Association, Inc.

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

Material name: Index Liquid At-Plant Insecticide

1455 Version #: 2.0 Revision date: Mar-29-2017 Issue date: Mar-29-2017

No