INTLVAC 210

SAFETY DATA SHEET

Revision Date November 2023

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name INTLVAC 210

Recommended use of the chemical and restrictions on use
Recommended Use Lubricant.

Details of the supplier of the safety data sheet
Company
Intlvac Thin Film
1401 Duff Drive, Unit 600
Fort Collins, CO USA 80524
Phone: 970-305-8508
VALIDATION DATE: 11/28/23

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements
Signal word : not classified
Hazard statements: None

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil **Physical state** Liquid **Odor** Mild
Eyes: None **Skin:** None **Inhalation:** None
Ingestion: None

Hazards not otherwise classified (HNOC)
Other information
• Harmful to aquatic life with long lasting effects
Unknown Acute Toxicity
2.36% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Components	CAS-No	Weight %	Trade Secret
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	68515-49-1	10-40%	*

4. FIRST AID MEASURES

First aid measures

Eye contact: Flush eye with water for 15 minutes. If symptoms persist, call a physician.

Skin contact: Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

Inhalation: If breathing is difficult, give oxygen. Consult a physician. Move to fresh air.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire, cool tanks with water spray.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Wear personal protective equipment.

Environmental precautions

Environmental precautions: Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Always replace cap after use. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers dry and tightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Contains mineral oil, vegetable oil, and/or synthetic oil. Under conditions which may

generate mists, observe the OSHA PEL of 5 mg/m³, ACGIH STEL of 10 mg/m³.

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: Breathing apparatus needed only when aerosol or mist is formed.
Hand protection: Impervious gloves
Eye protection: Safety glasses
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect
General Hygiene Considerations Avoid contact with skin, eyes and clothing. Wash off with soap and water

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Oil **Odor** Mild **Color** Clear **Odor threshold** No information available

Property	Values	Remarks • Method			
Melting point/freezing point	No information available		**pH**	Not applicable	
Flash point	> 232 °C / 450 °F	Cleveland Open Cup	**Boiling point / boiling range**	> 315 °C / 600 °F	
Flammability (solid, gas)	No information available		**Evaporation rate**	No information available	
Upper flammability limit:	No information available		**Flammability Limit in Air Lower flammability limit:**	No information available	
Vapor pressure	No information available		**Vapor density**	No information available	
Specific Gravity	< 1.0		**Water solubility**	Insoluble in water	
Solubility in other solvents	No information available		**Partition coefficient**	No information available	
Autoignition temperature	No information available		**Decomposition temperature**	No information available	
Kinematic viscosity	approx. 97 cSt @ 40 ° C		**Dynamic viscosity**	No information available	

Explosive properties	No information available
Oxidizing properties	No information available

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Stability Stable under normal conditions
Possibility of Hazardous Reactions
Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.
Conditions to avoid
Conditions to avoid No special storage conditions required
Hazardous Decomposition Products
Hazardous Decomposition Products Incomplete combustion may produce small amounts of carbon oxides
Incompatible materials
Incompatible materials Oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	May cause slight irritation.
Skin contact	Substance does not generally irritate and is only mildly irritating to the skin.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Components	Oral LD50	Dermal LD50	Inhalation LC50
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	> 60000 mg/kg (Rat)	= 16000 mg/kg (Rabbit)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No sensitization responses were observed.
Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure	None under normal use conditions.
STOT - Repeated Exposure	None under normal use conditions.
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information
Unknown Acute Toxicity 2.36% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 14170 mg/kg **ATEmix (inhalation-dust/mist)** 466 mg/l

ATEmix (dermal)	5447 mg/kg	**ATEmix (inhalation-vapor)**	6651 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

2.47% of the mixture consists of components(s) of unknown hazards to the aquatic environment

1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	
Algae/aquatic plants	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50
Fish	0.55: 96 h Lepomis macrochirus mg/L LC50 static 0.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.66: 96 h Pimephales promelas mg/L LC50 static 1: 96 h Oncorhynchus mykiss mg/L LC50 static 1: 96 h Pimephales promelas mg/L LC50 flow-through
Crustacea	0.18: 48 h Daphnia magna mg/L EC50

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility
The product is insoluble and floats on water.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA:	Listed in TSCA
DSL:	All of the components in this product are listed in DSL
EINECS/ELINCS	This product complies with EINECS/ELINCS
CHINA:	This product complies with China IECSC.
KECL:	This product complies with Korea KECL.
PICCS:	This product complies with Philippines PICCS.
AICS:	All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No

Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65
This product contains the following Proposition 65 chemical: DIDP

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	Not Listed	Not Listed	Listed

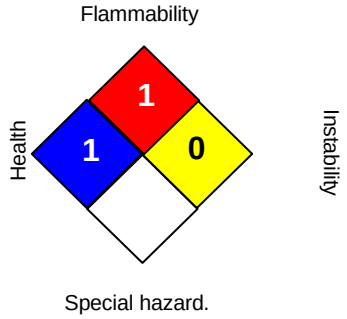
U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

The customer is responsible for determining the PPE code for this material.

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date
11/28/23

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