Safety Data Sheet



according to US OSHA Hazard Communication Standard (HCS 2012); 29 CFR Part 1910.1200 Issue date: 1/25/2024 Revision date: 1/25/2024 Supersedes: 3/18/2015 Version: 9.00

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Inland 45
Project-No. : PK_0014_M
Material code : 00000092
Synonyms : Polyalphaolefins

1.2. Recommended use and restrictions on use

Recommended use : Industrial use, Operating fluid / lubricant for vacuum pumps

1.3. Supplier

Manufacturer/Supplier

PFEIFFER VACUUM GmbH

Berliner Strasse 43 Asslar, 35614

Deutschland

T +49 6441 / 802-0 - F +49 6441 / 802-1202

info@pfeiffer-vacuum.com - www.pfeiffer-vacuum.com

Importer

Pfeiffer Vacuum Inc.

24 Trafalgar Square

Nashua, NH 03063

USA

T +1 800-248-8254

Email competent person

sds@kft.de

1.4. Emergency telephone number

Emergency number : 603-578-6500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : > 90% Polyolefine (Molecular mass 300+)

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Toxic fumes are released. Carbon monoxide. Carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done

according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shoveling) and

collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Take

precautionary measures against static discharges. Prevent build-up of electrostatic charges (e.g,

by grounding).

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Information about storage in one common storage : Keep away from food, drink and animal feeding stuffs.

facility

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dec-1-ene, homopolymer, hydrogenated

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Use protective clothing

Hand protection:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. ISO 374-1. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Use splash goggles when eye contact due to splashing is possible. ISO 16321-1

Skin and body protection:

Wear suitable protective clothing. EN 13034. EN ISO 13688

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. breathing apparatus with filter. Filter type: A-P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : clear colorless
Odor : slight

Odor threshold : No data available pH : No data available Melting point : Not applicable

Freezing point : < -59 °C (1013 hPa; ASTM D97)

Boiling point : 133 °C (0,1 torr)

Flash point : > 264 °C (1013 hPa; ASTM D92)

Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable
Combustible product.

Vapor pressure : < 1 x 10-7 Torr (25°C)

Relative vapor density at 20°C : No data available
Relative density : No data available

Density : 0.83 g/cm³ (15°C; ASTM D1298)

Solubility : Water: Insoluble

Partition coefficient n-octanol/water (Log Pow) : > 6.5 (pH 7; 20°C; (OECD 117 method))
Auto-ignition temperature : 343 – 369 °C (1013 hPa; ASTM D2155)

Decomposition temperature : No data available
Viscosity, kinematic : 53 mm²/s (40 °C)
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : Product is not explosive.
Oxidizing properties : Non oxidizing material.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

heat. To avoid thermal decomposition, do not overheat.

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10.5. Incompatible materials

Strong oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Dec-1-ene, homopolymer, hydrogenated				
LD50 oral rat	> 5000 mg/kg body weight (OECD 423 method)			
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402 method)			
LC50 Inhalation - Rat	> 5200 mg/m³ (OECD 403 method)			

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met) Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) Respiratory or skin sensitization Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified

(Based on available data, the classification criteria are not met)

Viscosity, kinematic : 53 mm²/s (40 °C)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Dec-1-ene, homopolymer, hydrogenated		
Persistence and degradability	Readily biodegradable, failing 10-d window.	
Biodegradation	66 % (28 d; (OECD 301D method))	

12.3. Bioaccumulative potential

Dec-1-ene, homopolymer, hydrogenated	
Partition coefficient n-octanol/water (Log Pow)	> 6.5 (pH 7; 20°C; (OECD 117 method))

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : No additional information available.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Do not

dispose of with domestic waste. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not applicable	Not regulated	Not regulated
14.2. Proper Shipping Name		
Not applicable	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not applicable	Not regulated	Not regulated
14.4. Packing group		
Not applicable	Not regulated	Not regulated
14.5. Environmental hazards		
Not applicable	Not regulated	Not regulated
No supplementary information available		•

14.6. Special precautions for user

DOT

Not applicable

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

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SECTION 16: Other information

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Data sources : MSDS of the supplier.

Department issuing data specification sheet: : KFT Chemieservice GmbH
Im Leuschnerpark 3

D-64347 Griesheim

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500

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Contact person : Blerarta Avdylaj

Other information : Version/s 4.00 - 8.07 is/are not available in this language.

Abbreviation	s and acronyms			
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International			
	Carriage of Dangerous Goods by Road)			
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European			
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)			
IATA	International Air Transport Association			
IMDG	International Maritime Code for Dangerous Goods			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
DPD	Dangerous Preparations Directive 1999/45/EC			
DSD	Dangerous Substances Directive 67/548/EEC			
EC50	Median effective concentration			
IARC	International Agency for Research on Cancer			
IATA	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OECD	Organisation for Economic Co-operation and Development			
PBT	Persistent Bioaccumulative Toxic			
PNEC	Predicted No-Effect Concentration			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
SDS	Safety Data Sheet			
STP	Sewage treatment plant			
TLM	Median Tolerance Limit			
vPvB	Very Persistent and Very Bioaccumulative			

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Indication of changes:					
Section	Changed item	Change	Comments		
	General revision		No additional information available		
3	Comments	Modified	No additional information available		
8	respiratory protection	Modified	No additional information available		
9	Physical and chemical properties	Modified	No additional information available		
	Product form	Modified	No additional information available		

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.