

# Safety Data Sheet



Trade name : PHANTOLID PASTE  
Revision date : 12.04.2017  
Print date : 12-4-2017

Version (Revision) : 3.2.0 (3.1.0)

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

### 1.1 Product identifier

PHANTOLID PASTE (W03047)  
5-ACETYL-1,1,2,3,3,6-HEXAMETHYLINDAN ; CAS No. : 15323-35-0 ; EC No. : 239-360-0

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

#### Relevant identified uses

Fragrance ingredient which may be used in fragrance compounds according to the current legislation and IFRA rules.  
Reserved for industrial and professional use.

#### Uses advised against

Not intended for oral consumption.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

PFW Aroma Ingredients B.V.

Street : Veemweg 29-31

Postal code/city : NL - 3771 MT Barneveld

Telephone : +31 342 407 700

Telefax : +31 342 407 720

Information contact : regulatory.affairs@keva.co.in

### 1.4 Emergency telephone number

+31 342 407 793  
USA: +1 800 222 1222

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life.  
Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life with long lasting effects.  
Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.  
Skin Irrit. 3 ; H316 - Skin corrosion/irritation : Category 3 ; Causes mild skin irritation.

### 2.2 Label elements

#### Labelling according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

##### Hazard pictograms

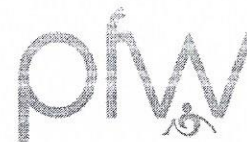


Environment (GHS09) · Exclamation mark (GHS07)

##### Signal word

Warning

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## Hazard statements

H302 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements

P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.  
P391 Collect spillage.  
P501 Dispose of contents/container to a chemical waste treatment facility or recycling plant.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : 5-ACETYL-1,1,2,3,3,6-HEXAMETHYLINDAN

EC No. : 239-360-0

CAS No. : 15323-35-0

Purity :  $\geq 95$  % [mass]

#### Synonyms

IUPAC : 1-(1,1,2,3,3,6-HEXAMETHYL-2,3-DIHYDRO-1H-INDEN-5-YL)ETHANONE

INCI : ACETYL HEXAMETHYL INDAN

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Medical treatment necessary. Remove victim out of the danger area. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### In case of skin contact

Wash immediately with: Water Do not wash with: Solvents/Thinner

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth thoroughly with water. Call a physician in any case! Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting measures



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## 5.1 Extinguishing media

### Suitable extinguishing media

alcohol resistant foam Extinguishing powder Water mist

### Unsuitable extinguishing media

Strong water jet

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide (CO).

## 5.3 Advice for firefighters

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

In case of entry into waterways, soil or drains, inform the responsible authorities. Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

### 6.3 Methods and material for containment and cleaning up

Wet clean or vacuum up solids. Avoid dust formation. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. All work processes must always be designed so that the following is as low as possible: All work processes must always be designed so that the following is as low as possible: Wear personal protection equipment (refer to section 8). eye contact, skin contact.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Ensure adequate ventilation of the storage area. Keep/Store only in original container. Use isolated drainage to prevent discharge to soil. Restrict access to stockrooms.

#### Hints on joint storage

Keep away from oxidising agent, acid and alkali.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

To date, no national critical limit values exist.

### 8.2 Exposure controls

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When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

## Personal protection equipment

### Eye/face protection

Eye glasses with side protection

### Skin protection

#### Hand protection

Hand protection is not required Wash hands before breaks and after work.

**Suitable material** : Butyl caoutchouc (butyl rubber)

**Breakthrough time (maximum wearing time)** : >480 min.

**Thickness of the glove material** : 1.00 mm.

**Recommended glove articles** : Butyl Plus/R0,5

#### Body protection

Overall

## Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values (FFP2) insufficient exhaust Handling larger quantities. Container device with compressed air (DIN EN 137) / Filtering device (full mask or mouthpiece) with filter: Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.)

## General health and safety measures

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of 400 times the exposure limit.

## Environmental exposure controls

Send to a hazardous waste incinerator facility under observation of official regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Odour threshold in air** : No data available

#### Safety relevant basis data

Storage temperature	<	25 °C	
Approved packaging			
Physical state :		solid	
Colour :		Off-white	
Odour :		sweet musky	
Melting point/melting range :		98,7 °C	
Melting point/melting range : ( 1 bar )		56 °C	
Initial boiling point and boiling range :		318 °C	
Initial boiling point and boiling range : ( 1013 hPa )		318 °C	
Decomposition temperature :		No data available	
Freezing point :		No data available	
Flash point (Closed Cup) :		93 °C	DIN EN 51578
Flammability (solid, gas) :		none	
Auto-ignition temperature :		no data available	
Evaporation rate :		slowly evaporating	



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Lower explosion limit :		No data available	
Upper explosion limit :		No data available	
Explosive properties :		none	
Vapour pressure :	( 50 °C )	<	0,01 hPa
Vapour pressure :	( 20 °C )		hPa
Vapour pressure :	( 25 °C )		0,00132 hPa
Surface tension (20°C)	( 20 °C )	No data available	
Relative density (water = 1) :	( 20 °C )	no data available	
Density :	( 20 °C )	0,95 - 1	g/cm <sup>3</sup>
Water solubility :		insoluble (0.1mg/l)	
Solubility in water :	( 25 °C )	0,25	mg/l
pH value :		not applicable	
Log Pow :		approx.	5,8
Viscosity :	( 20 °C )	No data available	
Viscosity :	( 20 °C )	not applicable	NEN-ISO 2884
Vapour density (air = 1) :	( 1013 hPa / 20 °C )	approx.	1
Oxidising properties :		none	
Refractive Index	no data available		

## 9.2 Other information

Justification for data waiving. pH value The substance is not soluble in water. Surface tension: The substance is not soluble in water. Viscosity: Testing can be waived because substance is a solid. Relative density (water = 1) Testing can be waived because substance is a solid.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Do not expose to temperatures above 50 °C.

### 10.5 Incompatible materials

Exothermic reaction with: oxidising agent strong acid strong alkali

### 10.6 Hazardous decomposition products

Decomposition with: Carbon dioxide. Carbon monoxide (CO).

## SECTION 11: Toxicological information

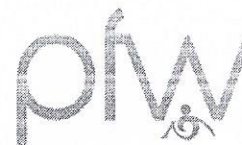
This substance is classified as not hazardous according to 67/548/EEC. This mixture is classified as not hazardous according to 1999/45/EC. This mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. This substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### 11.1 Information on toxicological effects

No information available.

## SECTION 12: Ecological information

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## 12.1 Toxicity

No information available.

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations.

## SECTION 14: Transport information

### 14.1 UN number

UN 3077

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( ACETYL HEXAMETHYL INDAN )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( ACETYL HEXAMETHYL INDAN )

#### Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ( ACETYL HEXAMETHYL INDAN )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 9  
Classification code : M7  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code : E  
Special provisions : E 1  
Hazard label(s) : 9 / N

#### Sea transport (IMDG)

Class(es) : 9  
EmS-No. : F-A / S-F  
Special provisions : LQ 5 KG · E 1 · Segregation Group: No/none  
Hazard label(s) : 9 / N

#### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9  
Special provisions : E 1



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Hazard label(s) : 9 / N

## 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

## 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### National regulations

##### Water hazard class (WGK)

Class : strongly water pollutant according VwVwS

##### Other regulations, restrictions and prohibition regulations which apply

U.S. - Section 8(b) Inventory (TSCA) Present

Inventory - Japan - Existing and New Chemical Substances (ENCS) Present (4)-1201

Inventory - China - Inventory of Existing Chemical Substances (IECSC) Present 39800

Inventory - Taiwan - Taiwan Chemical Substance Inventory (TCSI) Present

Inventory - Korea - Existing Chemicals Inventory (KECI/KECL) - Annex 1 Present KE-10696

Inventory - Philippines - Inventory of Chemicals and Chemical Substances (PICCS) Present

Inventory - Australia - Inventory of Chemical Substances (AICS) Present

Inventory - New Zealand - Inventory of Chemicals (NZIoC) Present

### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient; ACGIH = American Conference of Governmental Industrial Hygienists (US); ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AFFF = Aqueous Film Forming Foam; AICS = Australian Inventory of Chemical Substances; AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC); AOAC = AOAC International (formerly Association of Official Analytical Chemists); aq. = Aqueous; Asia-PAC = Asia Pacific; ASTM = American Society of Testing and Materials (US); atm = Atmosphere(s); B.V. = Beperkt Vennootschap (LTD = Limited); BCF = Bioconcentration Factor; bp = Boiling point at stated pressure; bw = Body weight; ca = (Circa) about; CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society); CEFIC = European Chemical Industry Council (established 1972); CEPA = Canadian Environmental Protection Act (CAN); CEPA = Canadian Environmental Protection Act (Canada); CIPAC = Collaborative International Pesticides Analytical Council; CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.; CoE = Council of Europe (EU); Conc = Concentration; cP = CentiPoise; CSNN = Chemical Substance Nomination & Notification (Taiwan); cSt = Centistokes; d = Day(s); DIN = Deutsches Institut für Normung e.V.; DNEL = Derived No-Effect Level; DSL = Domestic Substances List; DT50 = Time for 50% loss; half-life; EbC50 = Median effective concentration (biomass, e.g. of algae); EC = European Community; European Commission; EC50 = Median effective concentration; ECL = Existing Chemicals List (Korea); EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number); ELINCS = European List of



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Notified (New) Chemicals; ENCS = Existing and New Chemical Substances Inventory (Japan); ErC50 = Median effective concentration (growth rate, e.g. of algae); EU = European Union; EWC = European Waste Catalogue; FAO = Food and Agriculture Organization (United Nations); FEMA = Flavor & Extract Manufacturers Association (USA); FLAVIS = Flavour Information System (EU); GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International); GRAS = Generally Recognized As Safe (USA); h = Hour(s); hPa = HectoPascal (unit of pressure); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Concentration that produces 50% inhibition; IECSC = Inventory of Existing Chemical Substances (China); IMDG Code = International Maritime Dangerous Goods Code; IMO = International Maritime Organization; ISO = International Organization for Standardization; IUCLID = International Uniform Chemical Information Database; IUPAC = International Union of Pure and Applied Chemistry; IVIS = In-Vitro Irritancy Score; JECFA = Joint Expert Committee on Food Additives (United Nations); kg = Kilogram; Kow = Distribution coefficient between n-octanol and water; kPa = KiloPascal (unit of pressure); LC50 = Concentration required to kill 50% of test organisms; LD50 = Dose required to kill 50% of test organisms; LEL = Lower Explosive Limit/Lower Explosion Limit; LOAEL = Lowest observed adverse effect level; LVE = Low Volume Exemption; mg = Milligram; min = Minute(s); ml = Milliliter; mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa); mp = Melting point; MRL = Maximum Residue Limit; MSDS = Material Safety Data Sheet; n.o.s. = Not Otherwise Specified; NDSL = Non-Domestic Substances List; NIOSH = National Institute for Occupational Safety and Health (US); NOAEL = No Observed Adverse Effect Level; NOEC = No observed effect concentration; NOEL = No Observable Effect Level; NOx = Oxides of Nitrogen; NZIoC = New Zealand Inventory of Chemicals; OECD = Organization for Economic Cooperation and Development; OEL = Occupational Exposure Limits; Pa = Pascal (unit of pressure); PBT = Persistent, Bioaccumulative or Toxic; pH = -log10 hydrogen ion concentration; PICCS = Philippine Inventory of Chemicals and Chemical Substances; pKa = -log10 acid dissociation constant; PNEC = Predicted No Effect Concentration; POPs = Persistent Organic Pollutants; ppb = Parts per billion; PPE = Personal Protection Equipment; ppm = Parts per million; ppt = Parts per trillion; PVC = Polyvinyl Chloride; QSAR = Quantitative Structure-Activity Relationship; REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP); SI = International System of Units; STEL = Short-Term Exposure Limit; tech. = Technical grade; TSCA = Toxic Substances Control Act (US); TSCA = Toxic Substances Control Act (USA); TWA = Time-Weighted Average; UN = United Nations; vPvB = Very Persistent and Very Bioaccumulative; VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe; WHO = World Health Organization = OMS; y = Year(s);

## 16.3 Key literature references and sources for data

None

## 16.4 Relevant R-, H-, and EUH-phrases of all the individual ingredients

H302	Harmful if swallowed.
H316	Causes mild skin irritation.
H410	Very toxic to aquatic life with long lasting effects.

## 16.5 Training advice

None

## 16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.