

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Klar-Pilot - Fluid Super Plus** 01 11 00

Print date: 15.05.2015 Product code: Pilot001 Page 1 of 6

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

**1.1. Product identifier**

Klar-Pilot - Fluid Super Plus

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

**1.3. Details of the supplier of the safety data sheet**

Company name: Pilot GmbH Chemie Technik  
 Street: Steinhof 37  
 Place: D-40699 Erkrath  
 Telephone: +49 -211 / 924020 Telefax: +49 -211 / 242194  
 Contact person: Ursula Leuthold  
 Responsible Department: IFZ Ingenieurbüro und Consulting GmbH  
 Telephone: +49 - 30 / 2904897-10  
 Telefax: +49 - 30 / 2904897-20  
**1.4. Emergency telephone number:** +49 -211 / 924020 (09.00 - 16.00 MEZ)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

**2.2. Label elements**

**Precautionary statements**

P102 Keep out of reach of children.  
 P210 Keep away from heat. No Smoking.

**Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**SECTION 3: Composition/Information on Ingredients**

**3.2. Mixtures**

**Chemical characterization**

Cleaning product, contains water, alcohols, surfactants and colourings

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	Isopropanol	1 - 15 %
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove soiled clothing.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Klar-Pilot - Fluid Super Plus**

Print date: 15.05.2015

Product code: Pilot001

Page 2 of 6

**After inhalation**

Upon irritation of the respiratory tract or mucous membranes (e.g. coughing), indisposition or prolonged exposure, consult a doctor.

**After contact with skin**

Wash contaminated skin areas thoroughly with soap and water.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids.

**After ingestion**

Clean mouth with water and drink plenty of water afterwards. - If you feel unwell, seek medical advice (show the label where possible).

**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**

No information available.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), chemical fire extinguisher, water spray mist

**Unsuitable extinguishing media**

Extinguishing media which must not be used for safety reasons: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

Large quantities: Vapours may form explosive mixture with air. Do not breathe in the vapours and combustion gases. Vapours are heavier than air and spread at the soil. Pay attention to flashback.

**5.3. Advice for firefighters**

Large quantities: In the event of fire, wear self-contained breathing apparatus.

**Additional information**

Water mist may be used to cool closed containers.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes.  
Slipping hazard due to leakage.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

**6.3. Methods and material for containment and cleaning up**

Large quantities: Soak up with inert absorbent material. Dispose of the material collected according to regulations.

**6.4. Reference to other sections**

Refer to safety instructions (see sections 7 and 8).  
Suitable protective equipment: See section 8.  
Dispose of as described in section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

No special action required if used correctly. Do not empty container with pressure, it is not a pressurised container.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Klar-Pilot - Fluid Super Plus**

Print date: 15.05.2015 Product code: Pilot001 Page 3 of 6

**Advice on protection against fire and explosion**  
Keep away from sources of ignition - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**  
Store sealed in the original container. Store in cool place.

**Further information on storage conditions**  
Protect from heat and direct sunlight.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**8.2. Exposure controls**

**Protective and hygiene measures**  
Handle in accordance with good industrial hygiene and safety practice.

**Eye/face protection**  
Not required. In case of risk of splashing, wear protective glasses.

**Hand protection**  
No special measures are necessary when normal, good hygiene is practised.  
In the case of lengthy skin contact. Protective gloves made out of: PVC

**Skin protection**  
Not required.

**Respiratory protection**  
Not required.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: yellowish-orange

pH-Value: approx. 7.5 Test method

**Changes in the physical state**

Flash point: > 90 °C  
Vapour pressure: <0.02 hPa  
(at 20 °C)  
Density: 1.01 g/cm<sup>3</sup>  
Water solubility: completely miscible  
Viscosity / kinematic: 4.1 mm<sup>2</sup>/s

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

<b>Klar-Pilot - Fluid Super Plus</b>		
Print date: 15.05.2015	Product code: Pilot001	Page 4 of 6

**10.2. Chemical stability**

Stable at normal conditions.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No decomposition if used as directed.

**10.5. Incompatible materials**

No dangerous reactions are known.

**10.6. Hazardous decomposition products**

No dangerous decomposition products known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**

No data is available on the product itself.

**Acute toxicity**

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
67-63-0	Isopropanol					
	oral	LD50	4710 mg/kg	rats		
	dermal	LD50	12800 mg/kg	rats		
	inhalative (4 h) vapour	LC50	72.6 mg/l	rats		

**Irritation and corrosivity**

Contact with eyes may result in irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data is available on the product itself.

CAS No	Chemical name	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
67-63-0	Isopropanol						
	Acute fish toxicity	LC50	1400 mg/l	96 h	Lepomis macrochirus		
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	13299 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

No data is available on the product itself.

The surface active substances of the product correspond to the requirements of the EC Detergent Regulation (EC/648/2004) concerning ultimate aerobic biodegradation of tensides for washing and cleaning agents.

**12.3. Bioaccumulative potential**

No data is available on the product itself.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-63-0	Isopropanol	0.05



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Klar-Pilot - Fluid Super Plus**

Print date: 15.05.2015

Product code: Pilot001

Page 5 of 6

**12.4. Mobility in soil**

No data is available on the product itself.

**12.5. Results of PBT and vPvB assessment**

No data is available on the product itself.

**12.6. Other adverse effects**

No data is available on the product itself.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Disposal in accordance with the official regulations. Product can be supplied in accordance with local authority requirements a biological treatment plant.

**Waste disposal number of waste from residues/unused products**

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors  
Classified as hazardous waste.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** not regulated

**14.2. UN proper shipping name:** not regulated

**14.3. Transport hazard class(es):** not regulated

**14.4. Packing group:** not regulated

**Other applicable information (land transport)**

Not classified as dangerous regarding transport regulations.

**Inland waterways transport (ADN)**

**14.1. UN number:** not regulated

**14.2. UN proper shipping name:** not regulated

**14.3. Transport hazard class(es):** not regulated

**14.4. Packing group:** not regulated

**Marine transport (IMDG)**

**14.1. UN number:** not regulated

**14.2. UN proper shipping name:** not regulated

**14.3. Transport hazard class(es):** not regulated

**Other applicable information (marine transport)**

Not classified as dangerous regarding transport regulations.

**Air transport (ICAO)**

**14.1. UN number:** not restricted

**14.2. UN proper shipping name:** not restricted

**14.3. Transport hazard class(es):** not restricted

**Other applicable information (air transport)**

Not classified as dangerous regarding transport regulations.

**14.5. Environmental hazards**

**ENVIRONMENTALLY HAZARDOUS:** no

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

<b>Klar-Pilot - Fluid Super Plus</b>
Print date: 15.05.2015
Product code: Pilot001
Page 6 of 6

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory Information**

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

**EU regulatory information**

2004/42/EC (VOC): < = 10%

**Additional information**

No Substances of Very High Concern (SVHC) according REACH Article 57.

**National regulatory information**

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Relevant R-phrases (Number and full text)**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

**Relevant H- and EUH-phrases (Number and full text)**

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH210 Safety data sheet available on request.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



kód: 011100

**CleanAIR** \*klar-pilot Fluid Super Plus / Comfort **EN**

Ord. no.: 01 11 00 / 01 10 17

- **CLEANING**
- **ANTIFOG**
- **ANTI-STATIC**

- The CleanAIR® klar-pilot Fluid Super Plus / Comfort is recommended for all CleanAIR® visors.
- The CleanAIR® klar-pilot Fluid Super Plus / Comfort prevents misting caused by condensing humidity due to temperature differences between breathing zone and the external environment.
- The CleanAIR® klar-pilot Fluid Super Plus / Comfort also helps against misting caused by perspiration during hard work, high air humidity and from reason of relocating from cold to warm environments.
- The CleanAIR® klar-pilot Fluid Super Plus / Comfort prevents build-up of static charge. Dust and smoke are no longer attracted thus ensures bright and clear view.

The inner side of each CleanAIR® visor: No more condensation.  
The outer side of each CleanAIR® visor: Rain forms pearls and drops off.

**Way of application:**

1. Spray both sides of visor (shield or protection plate) with CleanAIR® klar-pilot Fluid Super Plus / Comfort as necessary (we recommend to apply it very morning).
2. Wait a few seconds to allow the mixture to act and then polish the surface with soft cellulose tissues (cosmetic tissues).
3. Repeat if necessary.

The CleanAIR® \*klar-pilot Fluid Super Plus / Comfort is environmentally friendly, contains no silicon and propellant gas.

**WARNING:**

Avoid contact with eyes.

MALINA-Safety s.r.o. Luční 11 466 01, Jablonec nad Nisou Czech Republic	tel. +420 483 356 600 fax. +420 483 356 601 export@malina-safety.cz www.malina-safety.cz
--	---

**CleanAIR** \*klar-pilot Fluid Super Plus / Comfort **CZ**

Obj. č.: 01 11 00 / 01 10 17

- **ČISTÍCÍ**
- **BRÁNÍ ZAMLŽOVÁNÍ**
- **ANTISTATICKÝ**

- CleanAIR® klar-pilot Fluid Super Plus / Comfort lze doporučit pro všechny zorníky značky CleanAIR®.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort zabraňuje mizení způsobenému kondenzující vlhkostí spojené s rozdíly teplot mezi dýchací zónou a okolním prostředím.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort také pomáhá zamezit zamlžování způsobenému pocením v průběhu intenzivní práce, vysoké vzdušné vlhkosti, nebo zepřičiněné přemísťením z chladného do teplého prostředí.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort zabraňuje vytváření statického náboje. Prach a kouř nadále nebude přitahován což zajišťí průzračně čistý výhled.

Vnitřní strana CleanAIR® zorníku značky: Zamezení kondenzaci vlhkosti.  
Vnější strana CleanAIR® zorníků: Voda utváří kapky, které samovolně stékají.

**Způsob použití:**

1. Nastříkejte dle potřeby obě strany zorníku za pomoci CleanAIR® klar-pilot Fluid Super Plus / Comfort (doporučujeme aplikovat každé ráno).
2. Vyčkejte několik sekund a umožněte tak směsi působit. Následně vyleštěte povrch měkkým papírovým kapesníkem.
3. Opakujte jakmile to bude třeba.

CleanAIR® \*klar-pilot Fluid Super Plus / Comfort je přátelský k životnímu prostředí, neobsahuje silikon ani hnací plyn.

**VAROVÁNÍ:**

Zamezte kontaktu prostředku a očí.

MALINA-Safety s.r.o. Luční 11 466 01, Jablonec nad Nisou Czech Republic	tel. +420 483 356 600 fax. +420 483 356 601 export@malina-safety.cz www.malina-safety.cz
--	---

**CleanAIR** \*klar-pilot Fluid Super Plus / Comfort **DE**

Bestellnummer: 01 11 00 / 01 10 17

- **REINIGUNG**
- **ANTIBESCHLAG**
- **ANTISTATIK**

- CleanAIR® Klar-Pilot Fluid Super Plus / Comfort wird für alle CleanAIR®-Visiere an den Masken, Helmen und für die Gesichtsschutzschilde empfohlen.
- CleanAIR® Klar-Pilot Fluid Super Plus / Comfort verhindert das Beschlagen, das durch die Kondensation von Luftfeuchtigkeit wegen Temperaturunterschied zwischen dem Atmungsbereich und der äußeren Umgebung verursacht ist.
- CleanAIR® Klar-Pilot Fluid Super Plus / Comfort hilft auch gegen Beschlagen, das durch Schwitzen während der harten Arbeit, durch zu hohe Luftfeuchtigkeit und aufgrund des Übergangs von einer kalten in die warme Umgebung verursacht ist.
- CleanAIR® Klar-Pilot Fluid Super Plus / Comfort verhindert den Aufbau von statischer Ladung. Staub und Rauch werden nicht mehr angezogen, womit eine helle und klare Sicht gewährleistet ist.

Innenseite jedes CleanAIR®-Visiers: keine Schweißwasserbildung.  
Außenseite jedes CleanAIR®-Visiers: Regen läuft besser ab.

**Art der Anwendung:**

1. Besprühen Sie beide Seiten des Visiers (einer Schutzmaske oder eines Schutzhelms) mit CleanAIR® Klar-Pilot Fluid Super Plus / Comfort.
2. Warten Sie einige Sekunden, bevor die Mischung wirksam ist, und dann polieren Sie die Oberfläche mit weichem Zellstofftuch (kosmetiktuch).
3. Bei Bedarf wiederholen.

Das Produkt CleanAIR® Klar-Pilot Fluid Super Plus / Comfort ist umweltfreundlich und enthält kein Silikon und Treibgas.

**WARNUNG:**

Den Kontakt mit den Augen vermeiden.

MALINA-Safety s.r.o. Luční 11 466 01, Jablonec nad Nisou Czech Republic	tel. +420 483 356 600 fax. +420 483 356 601 export@malina-safety.cz www.malina-safety.cz
--	---

## CleanAIR® klar-pilot Fluid Super Plus / Comfort

FR

N° d'ordre: 01 11 00 / 01 10 17

- NETTOYAGE
- ANTI-BUEE
- ANTI-STATIQUE

- Le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort est recommandé pour toutes les visières CleanAIR®.
- Le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort assure la prévention contre la buée générée par la condensation de l'humidité provoquée par la différence de températures entre la zone de respiration et l'environnement extérieur.
- Le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort aide également à prévenir la buée provoquée : par la transpiration durant l'exercice des tâches de travail pénibles, par l'humidité de l'air élevée ou suite au passage d'un endroit froid à un endroit chaud.
- Le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort assure la prévention contre l'électricité statique. La fumée et la poussière n'étant plus attirées, la vue reste claire et intacte.

Coté intérieure de chaque visière CleanAIR® : Plus de condensation.  
Coté extérieure de chaque visière CleanAIR® : La pluie perle et s'évacue.

## Mode d'application:

1. Traiter les deux côtés de la visière (bouclier ou écran de protection) avec le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort tant que nécessaire (on suggère de l'appliquer dès le matin).
2. Attendre quelques secondes afin que le produit puisse agir, puis polir la surface à l'aide d'un tissu doux en cellulose (coton).
3. Répéter, si nécessaire.

Le produit CleanAIR® klar-pilot Fluid Super Plus / Comfort est respectueux de l'environnement, ne contient pas de silicones ou de gaz de propulsion.

## ATTENTION:

Eviter tout contact avec les yeux.

MALINA-Safety s.r.o.  
Lučňní 11  
466 01, Jablonec nad Nisou  
Czech Republic

tel. +420 483 356 600  
fax.+420 483 356 601  
export@malina-safety.cz  
www.malina-safety.cz

## CleanAIR® klar-pilot Fluid Super Plus / Comfort

NO

Ord. nr.: 01 11 00 / 01 10 17

- RENSER
- HINDRER DUGGING
- HINDRER STATISK ELEKTRISITET

- CleanAIR® klar-pilot Fluid Super Plus / Comfort anbefales til alle CleanAIR® skilt.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort hindrer dugging som blir til pga. fuktighetskonsensering når det er temperaturskjeller mellom pustesonen og det ytre miljøet.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort hjelper også mot dugging som blir til ved svette under hardt arbeid, høy luftfuktighet og ved flytting fra kalde miljøer til varme miljøer.
- CleanAIR® klar-pilot Fluid Super Plus / Comfort hindrer at statisk elektrisitet blir til. Støv og røyk fester seg ikke på enheten og dermed sørges det for klart syn.

Indre side av CleanAIR® skilt: Uten kondensering.  
Ytre side av CleanAIR® skilt: Regn danner perler og skir bart.

## Applikasjon:

1. Spray begge sider av skiltet (selve skiltet og verneenheten) med CleanAIR® klar-pilot Fluid Super Plus / Comfort etter behov (anbefales tidlig om morgen).
2. Vent noen sekunder for å la blandingen virke og så poler overflaten med myke lommeklær av cellulose (kosmetikkørklær).
3. Gjenta prosessen ved behov.

CleanAIR® klar-pilot Fluid Super Plus / Comfort er miljøvennlig, inneholder verken silikon eller drivgass.

## OBS:

Unngå kontakt med øynene.

MALINA-Safety s.r.o.  
Lučňní 11  
466 01, Jablonec nad Nisou  
Czech Republic

tel. +420 483 356 600  
fax.+420 483 356 601  
export@malina-safety.cz  
www.malina-safety.cz

## CleanAIR® klar-pilot Fluid Super Plus / Comfort

ES

Núm. de pedido: 01 11 00 / 01 10 17

- LIMPIEZA
- ANTINEBLA
- ANTIESTÁTICA

- El CleanAIR® klar-pilot Fluid Super Plus / Comfort se recomienda para todos los visores CleanAIR®.
- El CleanAIR® klar-pilot Fluid Super Plus / Comfort impide la nebulización causada por la condensación de la humedad debido a las diferencias de temperatura entre la zona de respiración y el ambiente externo.
- El CleanAIR® klar-pilot Fluid Super Plus / Comfort también ayuda contra la nebulización causada por la transpiración durante el trabajo duro, la alta humedad del aire y por la razón de desplazamiento de los ambientes fríos a los ambientes cálidos.
- El CleanAIR® klar-pilot Fluid Super Plus / Comfort evita la acumulación de carga estática. El polvo y el humo ya no son atraídos, lo que asegura visión brillante y clara.

El lado interior de cada visor CleanAIR®: No más de la condensación.  
El lado exterior de cada visor CleanAIR®: La lluvia forma perlas y se desprende.

## Modo de aplicación:

1. Rocíe ambos lados del visor (escudo o placa de protección) con CleanAIR® klar-pilot Fluid Super Plus / Comfort como sea necesario (se recomienda aplicarlo la misma mañana).
2. Espere unos segundos para permitir que la mezcla actúe y luego pule la superficie con tejidos de celulosa (tejidos cosméticos).
3. Repita si es necesario.

CleanAIR® klar-pilot Fluid Super Plus / Comfort er miljøvennlig, inneholder verken silikon eller drivgass.

## ADVERTENCIA:

Evitar contacto con los ojos.

MALINA-Safety s.r.o.  
Lučňní 11  
466 01, Jablonec nad Nisou  
Czech Republic

tel. +420 483 356 600  
fax.+420 483 356 601  
export@malina-safety.cz  
www.malina-safety.cz