

**1.0 PRODUCT NAME AND SUPPLIER:**

Trade Name: PAT®-659/A

Use Conditions: Lubricant- and Release Agent-Preparation for industrial applications for the processing of plastics, in car manufacture and in construction by trained staff

Application Domains: When revising this safety data sheet no indication existed referring to restrictions of the ingredients with respect to certain applications. Identified sectors of end-use: e.g. SU3 (industrial uses) and SU21 (consumer uses); identified product categories: e.g. PC24 (release products); identified process categories: e.g. PROC1 (closed processes), PROC5 (mixtures), PROC8a/8b/9 (transfer into small containers), PROC10 (application by roller or brushing), PROC11 (non-industrial spraying) and PROC13 (dipping and pouring); identified environmental release categories: e.g. ERC1, ERC2, ERC4, ERC6a, ERC8a and ERC8d.

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**2.0 HAZARDS IDENTIFICATION:**

**Labelling and Classification according to Directive EU No. 1272 / 2008 (CLP)**



GHS-Labels: (GHS07)  
Code: WARNING

Hazard Indications: H 315 Causes skin irritation  
H 319 Causes serious eye irritation

Safety Statements (prevention): P 260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P 262 Do not get in eyes, on skin, or on clothing.  
P 264 Wash thoroughly with plenty of water and soap after handling.  
P 270 Do not eat, drink or smoke when using this product.  
P 280 Wear protective gloves/protective clothing/eye protection/face protection  
P 281 Use personal protective equipment as required.

Safety Statements (response): P 301+P 330+P 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P 310 Immediately call a POISON CENTER or doctor / physician.  
P 303+P 361+P 353 IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.  
P 304+P 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P 305+P 351+P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Safety Statements (storage): P 405 Store locked up.

Safety Statements (disposal): P 501 Dispose of contents/container to a waste treatment plant

Hazard determining Component(s): Sodium Hydroxide (NaOH)

Classification: Eye Irritation Category 2 H 319  
Skin Irritation Category 2 H 315

Other Hazards: None known.

**Labelling and Classification according to Directive EU No. 1999/45**

Labeling: This product requires labelling according to EU-directives and the German GefStoffV.

Xi – Irritant



Risk phrases: R 36/38 (irritating to eyes and skin)  
Safety phrases: S 24/25 (avoid contact with skin and eyes)  
S 26 (in case of contact with eyes, rinse immediately with plenty of water and seek medical advice)  
S 27/28 (after contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of water and soap)  
S 36/39 (wear suitable protective clothing and eye/face protection)  
S 62 (If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label)

**Labelling and Classification according to HMIS**

Health 1 (slight)  
Flammability 0 (minimal)  
Reactivity 0 (minimal)  
Chronic 0 (minimal)

**3.0 COMPOSITION / CHEMICAL DESCRIPTION:**

Chemical Description: Aqueous formulation of lubricants and release agents  
Hazardous Ingredients: Description: Sodium Hydroxide (NaOH)  
CAS-No.: 1310-73-2  
REACH-No.: 01-2119457892-27-XXXX  
Concentration: < 3 %  
Labelling: H314 (category 1A), H290 (category 1) and C (R35)

**4.0 FIRST AID MEASURES:**

General Recommendations: In case of contamination move away from product and take off immediately all contaminated clothing.  
Inhalation: In case of irritation, move to fresh air. If irritation persists, get medical attention.  
Skin contact: Wash off properly with water and soap. If skin irritation persists, get medical attention.  
Eye contact: Flush with large amounts of water for at least 15 minutes, keeping eyelids open. Get medical attention.  
Ingestion: Immediately clean mouth thoroughly with water and drink plenty of water. Do NOT induce vomiting. Consult medical doctor.  
Specific Hazards / Effects: May enter the lungs after ingestion and/or vomiting.  
Further information: Treatment of symptoms and supportive therapy as indicated (decontamination, vital functions). Specific antidote: unknown.

**5.0 FIRE FIGHTING MEASURES:**

Extinguishing Media: CO<sub>2</sub>, dry chemical, foam  
Unsuitable Extinguishing Media: none  
Specific Hazards: none known  
Hazardous Combustion Products: The typical combustion products like carbon-monoxide (CO) and carbon-dioxide (CO<sub>2</sub>) may occur. In contact with air, vapors may form explosive mixtures.  
Special Equipment: Wear suitable respiratory equipment and fire-proof clothing.  
Further Information: Cool down containers close to fire by spraying water to the hull. Collect used extinguishing media and dispose of according to section 13.0.

**6.0 ACCIDENTAL RELEASE MEASURES:**

Personal Procedures: Safeguard scene of accident / leakage / spill. Wear personal protective equipment. Avoid contact with skin and eyes.  
Environmental Procedures: Do not dispose of to drains, sewers or public waterways. Notify authorities in case of soil contamination.  
Spill and Leak Procedures: Spills should be taken up mechanically with suitable absorbent and placed in suitable containers.  
Further Information: Dispose of contaminated product according to section 13.0.

# Safety Data Sheet

according to 1907/2006 EU and 1272/2008 EU

**E. u. P. Würtz GmbH & Co. KG**

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Product: PAT®-659/A

## 7.0 HANDLING AND STORAGE:

General Recommendations: The hygiene and safety procedures typical of working with chemicals should be followed. Avoid contact with skin and eyes. Safeguard scene of accident / leakage / spill. Do not smoke.

Hygiene Procedures: Keep away from food stuffs, drinks and feed stuffs. Prior to pauses and after work thoroughly wash your hands. Do not smoke.

Protection against Explosion: Storage class: 12 (non flammable liquids).

Co-storage Information: Do not store together with strong acids.

Further Information on storage conditions: Keep away from frost, in a dry place. Follow storage-directives for water endangering products.

Further Information: Keep container well sealed.

## 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION:

Information on equipment: see section 7.

Maximum Exposure Limits (NaOH): DNEL (workers, breathing, chronic effects): 1mg/m<sup>3</sup>

General Hygiene and Protection Measures: Do not eat, drink or smoke during work. Keep away from food stuffs, drinks and feed stuffs. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands thoroughly before pauses and after work.

Respiratory Equipment: Wear mask with filter type A-P2 according to EN 14387; during intensive prolonged exposition, wear suitable respiratory equipment.

Skin Protection: Wear suitable dissipative and chemically resistant gloves according to EN 388, EN 1149-1 and EN 1149-2 in conjunction with EN 374.

Eye Protection: Wear safety glasses with side shields (f.i. according to EN 166)

Body Protection: Wear antistatic shoes according to EN 20345, apron, suitable protective clothing

Further Information: It is recommended to install an automatic eye-flush-system close to the working place.

The personal protection equipment should match the actual working conditions in terms of its design and features. Due to the abundance of protective equipment / materials details on behalf of the personal protection equipment should be discussed with the suppliers of this equipment.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES:

Appearance / Color / Odor: Liquid – Paste / brown / typical

Boiling Point: > 100 °C

Flashpoint: > 100 °C (DIN 51755)

Vapor Pressure: app. 8 hPa at 20 °C (Literature)

Density: ca. 1,0 kg/L

Solubility in water: emulsifiable

## 10.0 STABILITY AND REACTIVITY:

Stability: Stable in normal use.

Incompatibilities: Sparks, flames, heat. Strong Acids.

Hazardous Reactions: None known in normal industrial use.

Hazardous Decomposition Products: None known in normal industrial use. In case of combustion carbon-monoxide (CO) and carbon-dioxide (CO<sub>2</sub>) may be generated.

## 11.0 TOXICOLOGICAL INFORMATION:

All data have been derived of the ingredients' or similar products' data.

Toxicity Oral LD<sub>50</sub>: > 2.000mg/kg (rat, male)

Irritation: Eyes: Irritation possible upon prolonged, direct contact  
Skin: Irritation possible upon prolonged, direct contact  
Inhalation: not irritant

Sensitization: Not known.

Further Information: None.

## 12. ECOLOGICAL INFORMATION:

All data stem from results obtained for the ingredients or comparable products.

Biologic Degradation: All ingredients are biodegraded.

Bioaccumulation: Not to be expected.

Fish-Toxicity: LC<sub>50</sub>: > 10 mg/l

13. DISPOSAL CONSIDERATIONS:

- Product: Waste disposal should be in accordance with existing Community, National and local regulations. Recommended: Incineration. Do not release to (public) waterways / drains. Do not release together with regular waste.
- EAK-Number: The classification has to be made according to the EAK-directive with respect to the area and process of application.
- Empty container: Recycling should be preferred over disposal. The disposal of empty containers must be in accordance with the requirements for the disposal of the product.

14. TRANSPORT INFORMATION:

No dangerous good.

15. REGULATORY INFORMATION:

Labelling: This product requires labelling according to EU-directives and the German GefStoffV.

Xi – Irritant



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S 62 (If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label)

National Laws (Germany):

Limitations of Employment: Follow ArbStoffG and Mutterschutzrichtlinienverordnung (youth employment and pregnancy restrictions)

Water-contaminating class (D, A, CH): WGK 1 slightly hazardous to water (VwVWS 17.05.1999)

16. OTHER INFORMATION :

All ingredients are TSCA- and EINECS-listed or exempted. We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of their use. Such data is furnished solely for your consideration, investigation and verification. It is the obligation of the user to ensure that all legal requirements are fulfilled when this product is used.