



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2021

Version number 4

Revision: 01.09.2021

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

- **1.1 Product identifier**
- **Trade name: Fotoplast Lacquer 3**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Light curing one-component lacquer
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Dreve Otoplastik GmbH  
Max-Planck-Straße 31  
59423 Unna / Germany  
Tel.: +49 2303 / 8807-0  
Fax.: +49 2303 / 8807-29
- **Further information obtainable from:**  
Department Research & Development  
Fax: +49 2303 / 8807-562  
Email: sicherheitsdatenblatt@dreve.de
- **1.4 Emergency telephone number:**  
Tel.: +49 211 / 797-3350  
Plant Fire Department Henkel

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
- 
**GHS02 flame**  
 Flam. Liq. 2      H225   Highly flammable liquid and vapour.
- 
**GHS08 health hazard**  
 Repr. 2      H361f   Suspected of damaging fertility (causing atrophy of the testes).
- 
**GHS05 corrosion**  
 Eye Dam. 1      H318   Causes serious eye damage.
- 
**GHS07**  
 Skin Irrit. 2      H315   Causes skin irritation.  
 Skin Sens. 1      H317   May cause an allergic skin reaction.  
 STOT SE 3      H335   May cause respiratory irritation.  
 Aquatic Chronic 3   H412   Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger· **Hazard-determining components of labelling:**

methyl methacrylate  
2-Propenoic acid, reaction product with Pentaerythrite  
Diphenyl(2,4,6-trimethylbenzoyl)phosphin oxide  
Acrylic resin

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H361f Suspected of damaging fertility (causing atrophy of the testes).  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

|                                           |                                                                                                              |         |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| CAS: 80-62-6<br>EINECS: 201-297-1         | Acrylic resin                                                                                                | 25-50%  |
|                                           | ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335                                                   |         |
| CAS: 1245638-61-2<br>EC number: 629-850-6 | methyl methacrylate                                                                                          | 25-50%  |
|                                           | ⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335                             |         |
|                                           | 2-Propenoic acid, reaction product with Pentaerythrite                                                       | 2.5-10% |
|                                           | ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 |         |

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|                                      |                                                                                                                                                    |         |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 75980-60-8<br>EINECS: 278-355-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphin oxide<br>⚠ Repr. 2, H361f                                                                                 | 2.5-10% |
| CAS: 107-98-2<br>EINECS: 203-539-1   | 1-methoxy-2-propanol<br>⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336                                                                                    | ≤2.5%   |
| CAS: 79-10-7<br>EINECS: 201-177-9    | acrylic acid<br>⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | ≤2.5%   |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Do not induce vomiting.  
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with skin and eyes.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid contact with skin and eyes.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Protect from heat and direct sunlight.  
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

| Ingredients with limit values that require monitoring at the workplace: |                                                                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>80-62-6 methyl methacrylate</b>                                      |                                                                                                       |
| WEL                                                                     | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm  |
| <b>107-98-2 1-methoxy-2-propanol</b>                                    |                                                                                                       |
| WEL                                                                     | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm |
| Sk                                                                      |                                                                                                       |

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Do not inhale fumes.

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

Protective gloves should be changed regularly, especially after intensive contact with the product. For every workplace a suitable type of protective gloves must be selected.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Butyl rubber, BR

As there are many different conditions in every day work these indications can only serve as an aid to orientation for the selection of suitable gloves for the handling of chemical products. By no means they can replace qualifying examinations by the end-user.

These recommendations only apply to the product mentioned in the safety data sheet. When mixing with other substances or under conditions deviant from norm EN 374 a manufacturer of CE-approved gloves should be referred to.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Fluid

Colour:

Yellowish

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

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|                                                  |                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Change in condition</b>                     |                                                                                             |
| <b>Melting point/freezing point:</b>             | Undetermined.                                                                               |
| <b>Initial boiling point and boiling range:</b>  | 101 °C                                                                                      |
| · <b>Flash point:</b>                            | 10 °C                                                                                       |
| · <b>Flammability (solid, gas):</b>              | Not applicable.                                                                             |
| · <b>Ignition temperature:</b>                   | 430 °C                                                                                      |
| · <b>Decomposition temperature:</b>              | Not determined.                                                                             |
| · <b>Auto-ignition temperature:</b>              | Product is not selfigniting.                                                                |
| · <b>Explosive properties:</b>                   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                       |                                                                                             |
| <b>Lower:</b>                                    | 2.1 Vol %                                                                                   |
| <b>Upper:</b>                                    | 12.5 Vol %                                                                                  |
| · <b>Oxidising properties</b>                    | Not determined<br>Not applicable.                                                           |
| · <b>Vapour pressure at 20 °C:</b>               | 47 hPa                                                                                      |
| · <b>Density at 20 °C:</b>                       | 0.98 g/cm <sup>3</sup>                                                                      |
| · <b>Relative density</b>                        | Not determined.                                                                             |
| · <b>Vapour density</b>                          | Not determined.                                                                             |
| · <b>Evaporation rate</b>                        | Not determined.                                                                             |
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.                                                           |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                                                                             |
| · <b>Viscosity:</b>                              |                                                                                             |
| <b>Dynamic at 23 °C:</b>                         | 25 mPas                                                                                     |
| <b>Kinematic:</b>                                | Not determined.                                                                             |
| · <b>Solvent content:</b>                        |                                                                                             |
| <b>Solids content:</b>                           | 0.0 %                                                                                       |
| · <b>9.2 Other information</b>                   | No further relevant information available.                                                  |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No dangerous reactions if used according to specifications.
- **10.2 Chemical stability** Stable if used according to specifications.
- **Thermal decomposition / conditions to be avoided:**  
Protect from heat and direct sunlight.  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

· **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### 1245638-61-2 2-Propenoic acid, reaction product with Pentaerythrite

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | >2,000 mg/kg (rat)    |
| Dermal     | LD50     | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >5 mg/l (rat)         |

##### 75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphin oxide

|        |      |                                 |
|--------|------|---------------------------------|
| Oral   | LD50 | >5,000 mg/kg (rat)              |
| Dermal | LD50 | >2,000 mg/kg (rat) ((OECD 402)) |

#### · **Primary irritant effect:**

#### · **Skin corrosion/irritation**

Causes skin irritation.

#### · **Serious eye damage/irritation**

Causes serious eye damage.

#### · **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

#### · **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

#### · **Reproductive toxicity**

Suspected of damaging fertility (causing atrophy of the testes).

#### · **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

#### · **Aquatic toxicity:**

Methylmethacrylate

LC50 Oncorhynchus mykiss, OECD 203, 96h >79 mg/l

NOEC Danio rerio, OECD 210, fish early life stage test 9,4 mg/l

EC50 Daphnia magna, OECD 202, 48h 69 mg/l

NOEC Daphnia magna, OECD 202 part2, flow rate, 21 d 37 mg/l

EC50 Selenastrum capricornutum, OECD 201, 72h > 110 mg/l

EC3 Pseudomonas putida test Bringmann-Kühn, 16h 100 mg/l

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

#### · **Ecotoxicological effects:**

· **Remark:** Harmful to fish

#### · **Additional ecological information:**

#### · **General notes:**

Do not allow product to reach ground water, water course or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.  
 Danger to drinking water if even small quantities leak into the ground.  
 Harmful to aquatic organisms

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **European waste catalogue**

|      |                                                           |
|------|-----------------------------------------------------------|
| HP3  | Flammable                                                 |
| HP4  | Irritant - skin irritation and eye damage                 |
| HP5  | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP10 | Toxic for reproduction                                    |
| HP13 | Sensitising                                               |
| HP14 | Ecotoxic                                                  |

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN1247

· **14.2 UN proper shipping name**

· **ADR** 1247 METHYL METHACRYLATE MONOMER, STABILIZED solution  
 · **IMDG, IATA** METHYL METHACRYLATE MONOMER, STABILIZED solution

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

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|                                                                                  |                                                                                                                 |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · <b>14.6 Special precautions for user</b>                                       | Warning: Flammable liquids.                                                                                     |
| · <b>Danger code (Kemler):</b>                                                   | 33                                                                                                              |
| · <b>EMS Number:</b>                                                             | F-E,S-D                                                                                                         |
| · <b>Stowage Category</b>                                                        | B                                                                                                               |
| · <b>Stowage Code</b>                                                            | SW2 Clear of living quarters.                                                                                   |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                                                                                 |
| · <b>Transport/Additional information:</b>                                       | SAPT: > 50°C                                                                                                    |
| · <b>ADR</b>                                                                     |                                                                                                                 |
| · <b>Limited quantities (LQ)</b>                                                 | 1L                                                                                                              |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>Transport category</b>                                                      | 2                                                                                                               |
| · <b>Tunnel restriction code</b>                                                 | D/E                                                                                                             |
| · <b>IMDG</b>                                                                    |                                                                                                                 |
| · <b>Limited quantities (LQ)</b>                                                 | 1L                                                                                                              |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>IATA</b>                                                                    |                                                                                                                 |
| · <b>Remarks:</b>                                                                | SAPT: > 50°C                                                                                                    |
| · <b>UN "Model Regulation":</b>                                                  | UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION, 3, II                                                 |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Directive 2012/18/EU
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK    | ≤2.5       |
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility (causing atrophy of the testes).
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Department Research & Development

· **Contact:** Dr. Thomas Veit, Lothar Sutor, Susanne Weber

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity - oral – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **\* Data compared to the previous version altered.**

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