

ML ANTI-CORROSION INSIDE COAT BROWN

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1 Product identification

ML ANTI-CORROSION INSIDE COAT BROWN
UFI: KRV0-E0W3-0006-GFYC

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

Use of the substance/mixture: Metal surface treatment.

1.3 Data of the safety data sheet supplier:

Przedsiębiorstwo RANAL Sp. z o.o.
Ul. Łódzka 3
42-240 Rudniki k. Częstochowy, PL

Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16
Registration number 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone

Tel.: +48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) no 1272/2008:

GHS02: Flam. Liq. 3 , H225*, Highly flammable liquid and vapour.
GHS07: STOT SE 3 , H336, May cause drowsiness or dizziness.
Aquatic Chronic 3, H412, Harmful to aquatic life with long-lasting effects.

2.2. Label elements

Classification according to the regulation (EC) no 1272/2008:

The product has been classified and labelled according to CLP regulation.

Hazard pictograms:



GHS02 GHS07

Signal word: **Danger.***

Label elements specifying the type of hazard:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics.
Hydrocarbons, C9, aromatic hydrocarbons.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (< 0.1% benzene).*

Hazard statements:

H225 Highly flammable liquid and vapour.*
H336 May cause drowsiness or dizziness.*
H412 Harmful to aquatic life with long-lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from sources of heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*
P271 Use only outdoors or in a well-ventilated area.*
P273 Avoid release to the environment.*
P280 Wear protective gloves/ face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
1.3 percent of the mixture consists of component (s) of unknown toxicity.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Description: A mixture of waxes, additives and solvents.

Dangerous components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
25-< 50%
CAS: 64742-48-9
EC no: 919-857-5
Reg.No: 01-2119463258-33
Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336

Hydrocarbons, C9, aromatic hydrocarbons
2.5-< 10%
CAS: 128601-23-0
EC no: 918-668-5
Reg.No: 01-2119455851-35
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (< 0.1% benzene)*
2.5-< 10%
EC number: 920-750-0
Reg.No: 01-2119473851-33
Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066

Sulfonic acids, petroleum, sodium salts
2.5-< 10%
CAS: 68608-26-4
EC no: 271-781-5
Reg.No: 01-2119527859-22
Eye Irrit. 2, H319

2-butoxyethanol
0.1-< 1%
CAS: 111-76-2
EC no: 203-905-0
Reg.No: 01-2119475108-36
Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319.

Ethanol*
0.1-< 1%
CAS: 64-17-5
EINECS: 200-578-6
Reg.No: 01-2119457610-43
Flam. Liq. 2, H225
Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %

Additional information:

For the full text of hazard statements refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Airways: Supply fresh air, in case of disturbances, consult a doctor.
Skin: In general the product does not irritate skin.
Eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Alimentary tract: Do not induce vomiting and call a doctor.

4.2. Most important symptoms both acute and delayed

No further relevant data available.

4.3. Indications of any immediate medical attention and special treatment needed

No further relevant data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Water mist. Extinguishing powder. Carbon dioxide. Foam resistant to alcohol.
Extinguishing agents unsuitable for safety reasons: Full jet of water.

5.2. Special hazards arising from the substance or mixture

No further relevant data available.

5.3. Advice for fire fighters

Protective equipment: Wear respiratory protection.*
There is no need of special measures. *

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Wear protective clothing. Move unprotected persons to a safe place.

6.2. Environmental precautions

Prevent from reaching sewage system or water courses.
Prevent entry into sewers, ditches and cellars.*

In the event of leakage into water course or sewage system inform competent authorities. Do not allow entering sewage system /surface water /ground water.

6.3. Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not wash with water or water based cleaning agents.

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 information on disposal.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace. Avoid spraying.

Information about fire and explosion protection: Keep ignition sources away – do not smoke. Take precautionary measures against static discharges.

Information about fire and explosion protection: Keep ignition sources away - do not smoke. Protect against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Keep cool*.

Further information about storage conditions: Keep container tightly sealed. Store in well-sealed barrels in a cool and dry place*.

7.3. Special end use (s)

No further relevant data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Components with limit values that require monitoring depending on the workplace:

111-76-2 2-butoxyethanol

MPIC: 200 mg/m³

MPC: 98 mg/m³ (skin)

DNEL values:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral: DNEL Long-term-systemic 125 mg/kg bw/day (Consumer)

Skin: DNEL Long-term-systemic 125 mg/kg bw/day (Consumer)

208 mg/kg bw/day (Worker)

Inhalation: DNEL Long term-systemic 185 mg/m³ (Consumer)

871 mg/m³ (Worker)

128601-23-0 Hydrocarbons,C9, aromatic hydrocarbons

Oral: DNEL Long-term-systemic 11 mg/kg bw/day (Consumer)

Skin: DNEL Long-term-systemic 11 mg/kg bw/day (Consumer)

25 mg/kg bw/day (Worker)

Inhalation: DNEL Long term-systemic 32 mg/m³ (Consumer)

100 mg/m³ (Worker)

128601-23-0 Hydrocarbons,C9, aromatic hydrocarbons*

Oral: DNEL Long term-systemic 11 mg/kg bw/day (Consumer)

Skin: DNEL Long term-systemic 11 mg/kg bw/day (Consumer)

25 mg/kg bw/day (Worker)

Inhalation: DNEL Long term-systemic 32 mg/ m³ (Consumer)

100 mg/m³ (Worker)

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (<0.1% benzene)*
Oral: DNEL Long term-systemic 699 mg/kg bw/day (Consumer)
Skin: DNEL Long term-systemic 699 mg/kg bw/day (Consumer)
773 mg/kg bw/day (Worker)
Inhalation: DNEL Long term-systemic 608 mg/ m3 (Consumer)
2035 mg/m3 (Worker)

68608-26-4 Sulfonic acids, petroleum, sodium salts*
Oral: DNEL Long term-systemic 0.833 mg/kg bw/day (Consumer)
Skin: DNEL Long term-systemic 1.667 mg/kg bw/day (Consumer)
3.33 mg/kg bw/day (Worker)
Inhalation: DNEL Long term-systemic 0.33 mg/ m3 (Consumer)
0.66 mg/m3 (Worker)

Additional information: The currently valid lists were used as basis.

8.2. Exposure control

Personal protective equipment:

General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Immediately take off all soaked and contaminated clothing. Wash hands before each break and at the end of work. Do not breathe gases/ vapours / spray. Avoid contact with eyes. Avoid contact with eyes and skin.

General ventilation*.

Respiratory protection:

In case of insufficient ventilation use respiratory protection. Filter A2/P2.

Hands protection:



Protective gloves.

Gloves resistant to solvents.

The glove material has to be impermeable and resistant to the product/substance/preparation. Due to the lack of testing, no recommendation can be made regarding glove material for protection against the product/preparation/mixture of chemical substances.* Use protective gloves to work with chemicals according to standard EN 374.*

Material of gloves:

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 mixture consisting of several substances the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use.

Nitrile rubber.

Recommended thickness of the material: >0.5 mm

Penetration time of the glove material::

For continuous contact, it is recommended to use gloves with a tensile strength of not less than 240 minutes, with a penetration time of more than 480 minutes as priority. We recommend the same for short-term works or protection against splash.

We understand that gloves that offer this level of protection may not be in stock. In this case, a smaller time lapse is acceptable in terms of maintenance procedures and as long as timely replacements are respected. The thickness of the glove is not a good measure of the glove's chemical resistance as it depends on the exact composition of the glove material.

Information about the penetration time of the substance should be obtained from the glove manufacturer and has to be observed.

Eye or face protection*:



Protective glasses (EN-166).

Tightly sealed protective glasses.

Body protection:

Use protective clothing (EN-13034/6).

It is recommended to use antistatic, chemical and oil-resistant clothing as well as safety shoes. (EN1149; EN340&EN ISO 13688; 13034-6).*

Environmental control*:

Use an appropriate container to prevent environmental contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Physical state:

liquid

Colour:

according to product name

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Odour:	characteristic
Odour threshold:	not specified
Melting /freezing point:	not specified
Initial boiling point and boiling range and boiling point:	165-181C (128601-23-0 Hydrocarbons, C9, aromatic hydrocarbons)*
Flammability (solid, gas):	Highly flammable product*
Explosion limits:	bottom: 0.6 Vol %, (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)* Top: 7.5 Vol %, (128601-23-0 Hydrocarbons,C9, aromatic hydrocarbons)*
Flash point:	6°C (68920- 06-9 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)
Combustion temperature*:	270°C (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)*
pH:	The mixture is non-polar / aprotic*
Viscosity:	
Dynamic at 20°C*:	>700 mPas*
Kinematic:	not specified*
Solubility in/miscibility with water n-octanol/water partition coefficient:	not miscible or poorly miscible Not determined.
Vapour pressure at 20 °C:	1 hPa (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)*
Density at 20°C:	0.831-0.869 g/cm ³ *
Relative density:	not specified
Vapour density:	not specified

9.2. Other information

Appearance*:	
Form*:	Liquids

Important information on health and environment protection ad safety*:

Auto ignition point:	the product is not self-igniting
Explosive properties:	the product is not explosive, but formation of explosive air/vapour mixtures is possible.

Solvent content:	
Organic solvents:	46.9 % *
Water:	0.2%.
Solids content	52.0 % *

Change of state:	
Evaporation rate	not specified

Information with regard to physical hazard classes*:

Explosives	none
Flammable gases	none
Aerosols	none
Oxidising gases	none
Gases under pressure	none
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	none
Self-reactive substances and mixtures	none
Pyrophoric liquids	none
Pyrophoric solids	none
Self-heating substances and mixtures	none
Substances and mixtures which emit flammable gases in contact with water	none
Oxidizing liquids	none
Oxidising solids	none
Organic peroxides	none
Substances corrosive to metals	none
Desensitised explosives	none

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant data available.

10.2. Chemical stability

Thermal decomposition / conditions to avoid: no decomposition if used as intended.*

10.3. Possibility of hazardous reactions

Hazardous reactions unknown.

10.4. Conditions to be avoided

No further relevant data available.

10.5. Incompatible materials

No further relevant data available.

10.6. Hazardous decomposition products

Hazardous decomposition products unknown.

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:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LD50 (rat, oral)	>5000 mg/kg
LD50 (skin, rabbit)	3160 mg/kg*
LC50 (inhalation, rat)	>5000 mg/l (4 h)*

128601-23-0 Hydrocarbons, C9, aromatic hydrocarbons	
LD50 (rat, oral)	3492 mg/kg
LD50 (skin, rabbit)	> 3160 mg/kg
LC50 (inhalation, rat)	>6193 mg/l (4 h)

68608-26-4 Sulfonic acids, petroleum, sodium salts	
LD50 (oral, rat)	>6000 mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Allergic effect on airways or skin: Based on available data, the classification criteria are not met.

Mutagenic effect on germ cells: Based on available data, the classification criteria are not met.

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

Harmful effect on reproduction*: Based on available data, the classification criteria are not met.

Specific target organ toxicity – single exposure*: May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure*: Based on available data, the classification criteria are not met.

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

11.2. Information on other hazards*

Endocrine disrupting properties:

None of the components is listed

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
ELO (48 h)	1000 mg/l (Daphnia magna*)
NOELR (72 h)	100 mg/l (Pseudokirchneriella subcapitata)
EL50 (72 h)	>1000 mg/l (Pseudokirchneriella subcapitata)
LL50 (96 h)	>1000 mg/l (Oncorhynchus mykiss*)

128601-23-0 Hydrocarbons, C9, aromatic hydrocarbons	
NOELR (72 h)	1 mg/l (Pseudokirchneriella subcapitata)
EL50 (48 h)	3.2 mg/l (daphnia magna*)
LL50 (96 h)	9.2 mg/l (Oncorhynchus mykiss*)

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (< 0.1% benzene)*	
NOELR (72 h)	10 mg/l (Pseudokirchneriella subcapitata)
EL50 (48 h) 3 mg/l	(Daphnia magna)
EL50 (72 h)	10-30 mg/l (Pseudokirchneriella subcapitata)
LL50 (96 h)	>13.4 mg/l (Oncorhynchus mykiss)
NOEC (21 days)	0.17 mg/l (Daphnia magna)
LOEC (21 days)	0.32 mg/l (Daphnia magna)

12.2. Persistence and degradability

Not easily biodegradable.*

12.3. Bioaccumulative potential

No further relevant data available.

12.4. Mobility in soil

No further relevant data available*.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties*

The product does not contain substances with endocrine disrupting properties.

12.7. Other hazardous effects*

Warning: Hazardous for fish.

Further ecological information:

General information:

Water hazard class 2 (Self-assessment): hazardous to water.

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

Dangerous to drinking water if even small quantities leak into the ground.

Poisonous to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation:

Must not be disposed together with household garbage.

Prevent from reaching sewage system.

European waste catalogue:

08 01 11 Waste paints and varnishes containing organic solvents or other dangerous substances.

15 01 04* Metallic packaging.

15 01 02* Plastic packaging.

HP 3 Flammable.

HP 5 Specific Target Organ Toxicity (STOT) / Aspiration toxicity.

HP 14 Ecotoxic.

Contaminated packaging:

Recommendation: Dispose of according to applicable regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

ADR/RID/ADN, IMDG, IATA UN1139

14.2. UN proper shipping name

ADR/RID/ADN UN 1139 COATING SOLUTION

IMDG, IATA COATING SOLUTION

14.3. Transport hazard class (-es)

ADR, IMDG, IATA

Class 3 flammable liquids

Label 3



ADN

Class ADN/R 3 flammable liquids

14.4. Packaging group

ADR, IMDG, IATA III

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for users

Warning: Flammable liquids.
Danger code (Kemler): --
EMS Number: F-E, S-E
Stowage Category: A

14.7 Sea transport in bulk in accordance with IMO instruments*

Not applicable.

ADR:

Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
Tunnel restriction code D/E

IMDG:

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN 'Model Regulation': UN 1139 COATING SOLUTION, 3, III

SECTION 15: REGULATORY INFORMATION

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

Classification according to the Regulation (EC) no 1272/2008:

The product has been classified and labelled according to CLP regulation.

Directive 2012/18/EU

Named dangerous substances: ANNEX I None of the components are listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5000t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 50000t

Regulation (EC) no 1907/2006 ANNEX XVII Restriction conditions: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II*: none of the components are listed.

REGULATION (EU) 2019/1148*

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit for the purpose of licensing according to Article 5 item 3): None of the components are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: None of the components are listed.

Regulation (EC) No. 273/2004 on drug precursors: none of the components are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the components are listed.

National regulations:

Class	share %
Water	0.1-<1
NK	25-< 50

VOC-CH 46.95 % *

VOC-EU 412.7 g/l *

Danish MAL Code 5-3

15.2. Chemical safety assessment:

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge; however it does not definitively define the production characteristics and cannot be used as a justification for valid contracts.

Relevant phrases

H225 Highly flammable liquid and vapour. *

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long-lasting effects.

Classification according to the Regulation (EC) no 1272/2008*:

PHYSICAL AND CHEMICAL PROPERTIES: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

Explanation of 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: 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).
DNEL: Derived No-Effect Level (REACH).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.
PBT: Persistent, Bio-accumulative and toxic.
vPvB: very Persistent and very Bio-accumulative.
Flam. Liq. 3: Flammable liquids – cat. 3.
STOT SE 3: Specific target organ toxicity(single exposure) – cat. 3.
STOT RE 1: Specific target organ toxicity (repeated exposure) – cat. 1.
Asp. Tox. 1: Aspiration hazard – cat. 1.
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – cat. 2,

Other data sources:

ECHA European Chemicals Agency
TOXNET Toxicology Data Network

Changes in the Sheet:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties
11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection 11.2. Information on other hazards
12: new subsection 12.6: Endocrine disrupting properties.
14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 2.1, 2.2, 3.2, 5.3, 6.2, 7.2, 8.1, 8.2, 9.1, 9.2, 10.2, 11.1, 12.1, 12.2, 12.4, 12.6, 12.7, 13.1, 14.1, 14.3, 14.6, 14.7, 15.1, 16.
General update.

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