Substance key: 000000644278	Revision Date: 07/10/2018
Version : 2 - 1 / USA	Date of printing :04/30/2019

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000 **Information of the substance/preparation:** Product Stewardship, +1-704-331-7710 **Emergency tel. number:** +1 800-424-9300 CHEMTREC

Trade name:	**AddWorks ATR 146**
Material number:	298988
Primary product use:	Stabilizer
Chemical family:	AO and LS blends

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary statements :

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No additional hazards are known except those derived from the labelling.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : AO and LS blends

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate	Not Assigned	10 - 20

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

If swallowed : If conscious, give the victim plenty of water to drink.
Consult a physician.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : sensitising effects
corrosive effects
May cause an allergic skin reaction.
Causes serious eye damage.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Foam Water spray jet Dry powder
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)
Specific hazards during firefighting	:	Carbon oxides
Further information	:	Wear suitable protective equipment.
Special protective equipment for firefighters	:	Wear personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Take up mechanically Take measures to prevent the build up of electrostatic charge. Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust may form explosive mixture in air.
Advice on safe handling	:	Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges. Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling. Use personal protective equipment. Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Store in a dry place.

Keep away from heat.
Store in original container.
Keep container tightly closed.

Technical measures/Precautions : Store in original container.
Keep container tightly closed.
Store in a cool, dry, well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate	Not Assigned

Engineering measures : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection
Remarks : Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.
Use protective skin cream before handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Colour	:	white, to, pale yellow
Odour	:	odourless
Odour Threshold	:	not determined
pH	:	Not applicable
Melting point	:	124 °C Method: DSC
Boiling point	:	Not applicable
Flash point	:	Not relevant
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	not determined
Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as pyrophoric.
Burning number	:	not determined
Upper explosion limit / upper flammability limit	:	Not relevant
Lower explosion limit / Lower flammability limit	:	Not relevant
Vapour pressure	:	Not applicable
Relative vapour density	:	not tested.
Relative density	:	no data available
Density	:	0.987 g/cm3 (23 °C) Method: ISO 1183
Solubility(ies)		
Water solubility	:	insoluble (20 °C)
Solubility in other solvents	:	not tested.
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not relevant
Decomposition temperature	:	> 260 °C Decomposition energy (mass): 190 kJ/kg

Method: DSC

Viscosity

Viscosity, dynamic	:	Not relevant
Viscosity, kinematic	:	no data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Dust explosion class	:	not capable of dust explosion
Particle size	:	3 - 5 mm Method: ISO 13320-1

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	See section 10.3. "Possibility of hazardous reactions"
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals
Conditions to avoid	:	None known.
Incompatible materials	:	not known
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method Remarks: not tested.

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat): > 0.005 mg/l, > saturated vapor
Exposure time: 7 h
Test atmosphere: vapour
Remarks: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: no data available

Skin corrosion/irritation

Product:

Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Species: Rabbit
Exposure time: 4 h
Assessment: non-irritant
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:

Result: Risk of serious damage to eyes.

Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 24 h
Assessment: irritating
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Product:

Result: May cause sensitisation by skin contact.

Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Test Type: Guinea pig maximization test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitization by skin contact.
GLP: yes

Assessment: Causes serious eye damage.
May cause an allergic skin reaction.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : No information available.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 8 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Cytogenetic assay
Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster

Concentration: 1 - 40 µg/l
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Carcinogenicity - Assessment : No information available.

IARC	Not listed
OSHA	Not listed
NTP	Not listed

Reproductive toxicity

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Dose: 25 - 125 - 250 mg/kg
General Toxicity - Parent: NOAEL: > 125 - 250 mg/kg body weight
General Toxicity F1: NOAEL: 250 mg/kg body weight
Method: OECD Test Guideline 416

Effects on foetal development : Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity - : No evidence of adverse effects on sexual function and fertility,

Assessment or on development, based on animal experiments.

STOT - single exposure

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Species: Rat, male and female
NOAEL: 40 mg/kg
Application Route: oral (gavage)
Exposure time: 28 days
Dose: 40 - 200 - 1000 mg/kg
Group: yes
Method: OECD Test Guideline 407
GLP: yes

Repeated dose toxicity - Assessment : Causes serious eye damage.

Aspiration toxicity

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae : Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0.14 - < 0.25 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.1068 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.0228 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l (nominal)
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The product was tested above its maximum solubility.

		NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l (nominal) End point: Growth rate Exposure time: 72 h Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: The product was tested above its maximum solubility.
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.054 mg/l End point: Reproduction rate Exposure time: 21 d Method: OECD Test Guideline 202
Toxicity to microorganisms	:	EC50 (activated sludge, domestic): > 1,000 mg/l Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The product was tested above its maximum solubility. NOEC (activated sludge, domestic): 636 mg/l Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The product was tested above its maximum solubility.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable

Persistence and degradability

Product:

Biodegradability	:	Remarks: This property is substance-specific and therefore cannot be given for the preparation.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Biodegradability	:	aerobic Biochemical oxygen demand Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 28 d Method: OECD Test Guideline 301C aerobic Inoculum: activated sludge, domestic Concentration: 3 mg/l DOC decrease Result: Not readily biodegradable. Biodegradation: 35.6 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes
Physico-chemical removability	:	Remarks: Biodegradable
Stability in water	:	Test Type: abiotic Degradation half life (Desalinated water, pH 7): < 2 d (20 °C) pH: 7 Hydrolysis: at20 °C Method: Other GLP: no

Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: not available

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Partition coefficient: n-octanol/water	:	log Pow: 8.92 (20 °C) Method: Calculation Hansch/Leo

Mobility in soil

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Distribution among	:	Remarks: no data available

environmental compartments

Other adverse effects

Product:

Environmental fate and pathways	:	Remarks: no data available
Additional ecological information	:	This information is not available.

Components:

Reaction mass of: 2,2,6,6-tetramethylpiperidin-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate:

Environmental fate and pathways	:	no data available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Additional ecological information	:	The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
Waste Code	:	none
Waste from residues	:	Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA

Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9
Packing group:	III

UN/ID number:	UN 3077
Primary risk:	9
Remarks:	Shipment permitted
Hazard inducer(s):	2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate

IMDG

Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9
Packing group:	III
UN no.:	UN 3077
Primary risk:	9
Hazard inducer(s):	2,2,6,6-tetramethylpiperidin-4-yl-octadecanoate
Marine pollutant:	Marine Pollutant
EmS:	F-A S-F

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation
Respiratory or skin sensitisation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

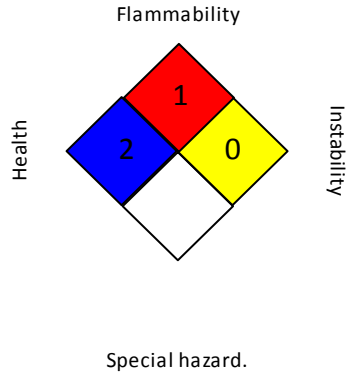
The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.

Revision Date : 07/10/2018

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