



## Chukyo Kasei Kogyo Co., Ltd.

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Aichi Quality No. 316

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**CHUKYO KASEI KOGYO**



# AEROSOL CATALOG

Aerosol Products



*We provide perfect demanding technologies to solve customer problems.*



**Our new release agents reflect the requirements of customers.**

Chukyo Kasei Kogyo has been an innovator in developing technologies for release agents. As we grew, the company became recognized as a manufacturer with one of the highest rates of success in solving customer problems. We listen to the opinions of the people working on-site; respect the customer's production, quality assurance, and manufacturing technologies; and liaise with the molding and raw material procurement divisions in order to supply the market with release agents that boost yields.



**We customize products in collaboration with customers.**

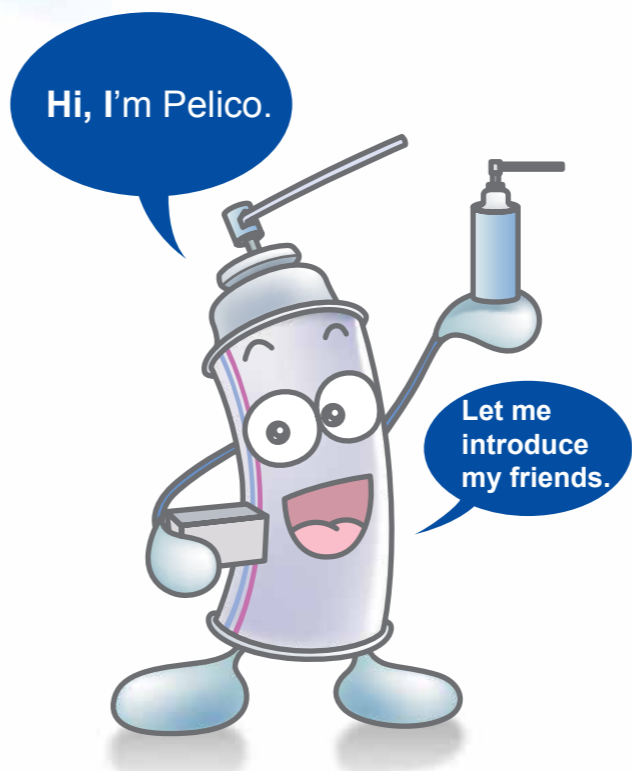
While retaining a rich lineup of products, we have a system to customize products in collaboration with the customer in order to stay current with the rapid progress in the industry. We provide preliminary testing with our own molding machine to reassure customers before doing tests and evaluations at their sites. By doing this, we have satisfied the needs of customers to improve yields without changing or modifying the materials and molds.



Preliminary test

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**Environmental Friendliness and Higher Quality**

ISO 9001 certified  
ISO 14001 certified

Chukyo Kasei Kogyo and its Pelicoat brand have led the industry in release agents for plastics. The company was awarded ISO 9001 quality management system certification in November 1999 and ISO 14001 environmental management system certification in June 2004. Although we are confident that we have always focused on quality and the environment, the certifications mean that our efforts have been officially acknowledged in recognition of our determination to provide customers with more environmentally friendly products of higher quality. As a manufacturer of release agents and lubricants, we will endeavor to meet all new customer needs. Your continued support is highly appreciated.

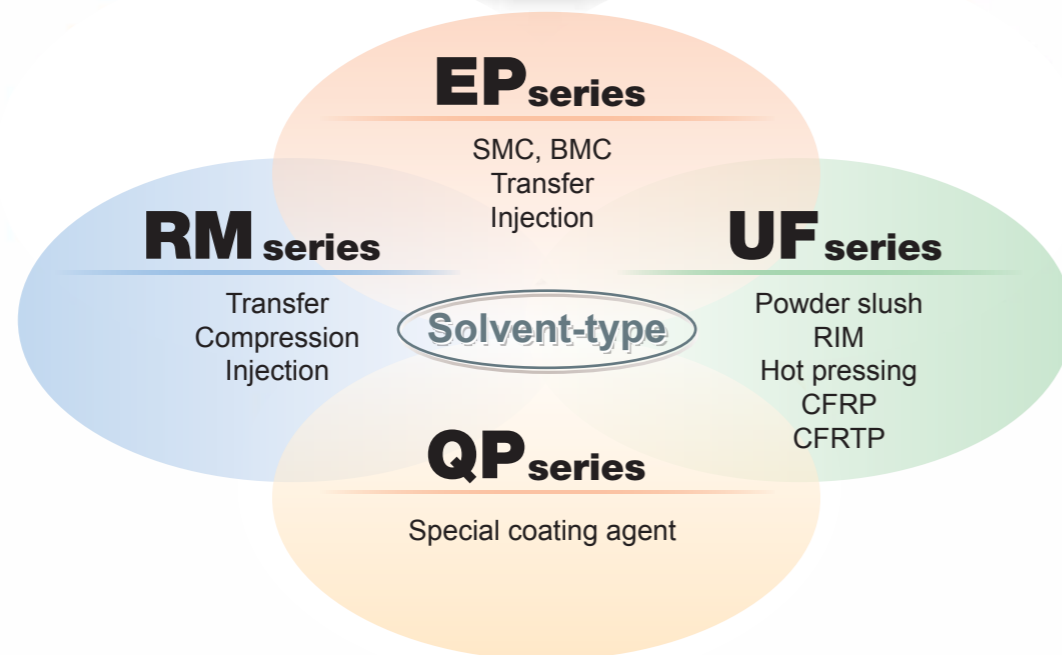


## Curecoat <Solvent-type>

Release agents for rubber and thermosetting resin



We have a wide variety of products to accommodate different materials and molding methods in response to the requirements of each customer.



### List of Products

	Type	Major application/features	Non-silicone
<b>RM series</b>	Resin compound	Peroxide-vulcanized rubber and general rubber	
<b>UF series</b>	Resin/Silicone	Thermoplastic elastomer, TPU, PVC, CFRP, and CFRTP Support for high-temperature dies and molds at 200°C or higher	
<b>EP series</b>	Fluorine/Synthetic wax	Thermosetting resins in general	○
<b>QP series</b>	Resin compound	Special coating agent, filler and cold-setting release agent	
<b>ONS</b>	Resin/Silicone	Support for general rubber and weather-stripping	

#### Instructions for the use of baking-type agents

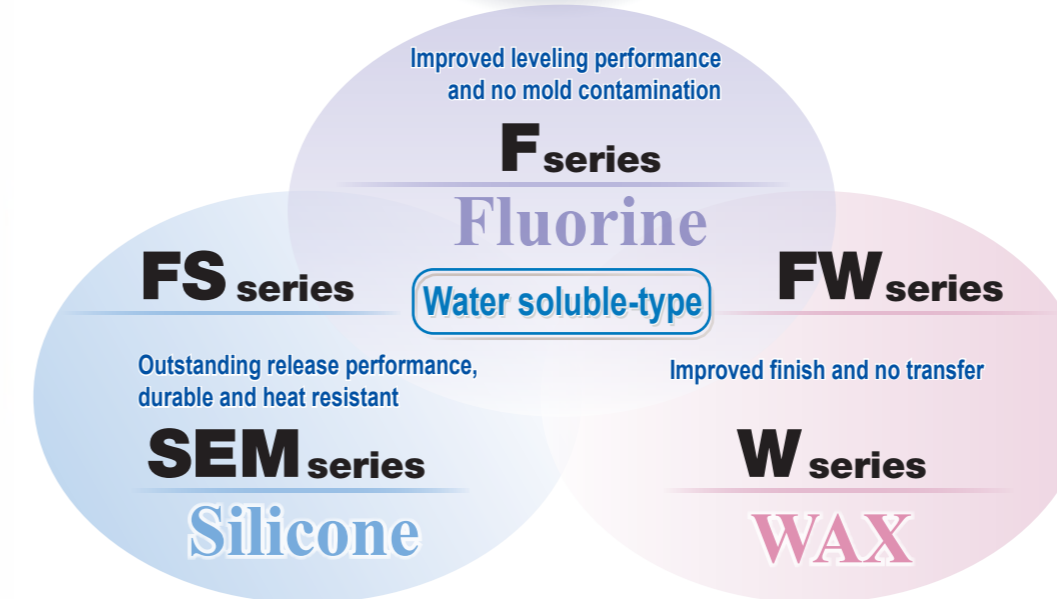
- 1) Remove dirt and wash the mold before use.
- 2) Spray the agent about 30 cm away from the surface of the mold
- 3) Coat the surface lightly and evenly. Allow a drying time of three to five minutes after coating and repeat this process three times.
- 4) Bake the agent onto the mold at the temperature of 120 to 180°C for 10 to 15 minutes before proceeding to the molding process.

## Lushcoat <Water soluble-type>

Release agents for rubber and thermosetting resin



We provide a wide range of products to meet the performance levels requested by each customer. We are also ready to customize any product. Feel free to provide us with your requirements at any time.



### List of Products

	Type	Major application/features	Non-silicone
<b>SEM series</b>	Resin/Silicone	Peroxide-vulcanized rubber and general rubber	
<b>F series</b>	Fluorine	Silicone rubber, thermoplastic resin and general rubber	○
<b>W series</b>	Synthetic wax	Mandrel mold and general rubber	○
<b>FW series</b>	Fluorine/Synthetic wax	Silicone rubber and general rubber	○
<b>FS series</b>	Fluorine/Silicone	General rubber	

#### Note

By selecting a release agent that is most appropriate for the material and molding method, higher release performance is achieved.



# Pelicoat Series

Release agents for thermoplastic resin

## Suitability for an item that needs secondary processing:

### Suitable >>> Vegetable oil-based release agents



- Pelicoat S
- Pelicoat S3-5
- Pelicoat S6
- Pelicoat F

Good release performance  
Good for an item needing secondary processing

**Features:**  
This paintable release agent has vegetable oil as the main ingredient. The agent contains no silicone oil and is appropriate for secondary processing. Any residual agent on a molded article can be removed with petroleum or alcohol-based general-purpose cleaner.

### Partly suitable >>> Fluorine-based release agents

- Pelicoat RF-1
- Pelicoat FF
- Pelicoat PV



**Features:**  
This release agent contains a fluorine compound as the main ingredient. A thin coating of a fluorine compound offers outstanding release performance and prevents the mold from becoming dirty. The agent can be used with transparent and thermosetting resins.

The agent can be used for secondary processing, if only a small amount is applied (except Pelicoat PV)

### Not suitable >>> Silicone-based release agents



- Pelicoat  $\alpha$
- Pelicoat A
- Pelicoat BX-2

High viscosity  
Low viscosity

**Features:**  
This release agent contains silicone oil as the main ingredient and offers high heat stability and release performance. Depending on the molding conditions, high or low viscosity can be chosen.

## Special purposes



### ● Pelicoat Z

**Features:**  
This powdery and less-sticky release agent contains fatty acid soap as the main ingredient. The agent is appropriate for thermoplastic resins in general as well as transparent resins.

- Pelicoat K
- Pelicoat KP
- Pelicoat GT-1
- Pelicoat GT-3

**Features:**  
A release agent that contains modified silicone oil as the main ingredient offers outstanding release performance and minimizes dirt on molds. This agent has minimal influence on the molded article and is appropriate for transparent resins and engineering plastics.

### ● List of Products

Main ingredient	Product name	Release performance	Dirt on mold	Secondary processing			
				Coating	Plating	Hot stamping	Silk-screen printing
Vegetable oil	S	○	○	○	○	○	○
	S3-5	○	○	○	○	○	○
	S6	○	○	○	○	○	○
	F	○	○	○	○	○	○
Fluorine	RF-1	○	○	△	△	△	△
	FF	○	○	△	△	△	△
	PV	○	○	x	x	x	x
Silicone $\alpha$	$\alpha$	○	○	x	x	x	x
	A	○	○	x	x	x	x
	BX-2	○	○	x	x	x	x
Fatty acid soap	Z	○	○	○	○	○	○
	K	○	○	△	x	x	x
	KP	○	○	x	x	x	x
	GT-1	○	○	△	x	x	x
	GT-3	○	○	△	x	x	x

## Automatic release agent sprayer



### ★ Note

Mount the Pelicoat cans onto the Autoben automatic release agent sprayer and set the spraying time and quantity; the device applies the agent automatically and correctly according to the number of shots specified.



# Antirust Agents



## Antirust agent for molds (volatile)

- Efflux F ▶ **Volatile standard type**  
(An undiluted solution is also available.)
- Efflux Colored ▶ **Volatile colored type**  
(The color of an agent clearly indicates where it was sprayed to ensure thorough application on the target.)
- Efflux C-Y ▶ **Volatile chemical attack-resistant type**  
(diluted solution minimizes the influence on molded articles)
- Efflux C-Y Colored ▶ **Volatile colored and chemical attack-resistant type**  
(diluted solution minimizes the influence on molded articles)

**Features:**  
The agent forms a tight, solid covering over the mold and a layer of vaporized agent over the covering for double protection. Because the agent contains no oil, it leaves almost no stains on molded articles. The agent can be removed by applying several preliminary shots.

**Application:**  
The agent prevents rust on the molds when oil should be avoided or as a substitute for grease or antirust oil that is difficult to remove. Close the molds and then pack and seal them in a plastic bag so that the vaporized agent does not diffuse into the air but remains around the molds for the desired effect.

## Antirust agent for molds (oil-based)

- Sabicro ▶▶ **Oil-based antirust lasts for a long period of time (three to six months)**

**Features:**  
The antirust agent for plastic molds forms a tight, semi-rigid covering over the target. This wax-type agent is less permeable so that no oil oozes in the molding process. Removing the coating is comparatively easy.

**Application:**  
Antirust for plastic molds

- Rakutoreru ▶▶ **Oil-based antirust for shorter periods of time (one to three weeks)**

**Features:**  
This antirust agent for plastic and precision molds forms an ultra-thin, quick-drying coating. The agent is less sticky and has less oil oozing so that the coating is easy to remove in the molding process, which reduces the number of preliminary shots.

**Application:**  
Antirust for plastic and precision molds (shorter period of time)



### List of Products

Product name	Coating status	Antirust effective for *1	Easiness of removing *3	Application
Efflux F	Solid thin coating	Six months to one year *2	○	Antirust for molds (semi-sealed) when oil should be avoided
Efflux Colored	Green solid thin coating	Six months to one year *2	○	
Efflux C-Y	Solid thin coating	Six months to one year *2	○	
Efflux C-Y Colored	Green solid thin coating	Six months to one year *2	○	
Sabicro	Semi-rigid thin film	Three to six months	○	Antirust for molds (for long period of time)
Rakutoreru	Liquid ultra-thin coating	One to three weeks	○	Antirust for molds (for short period of time)

● "Semi-sealed" means that the molds are closed. "Sealed" means that the molds are packed and sealed in a plastic bag.



## Antirust agent for equipment (Powerful wax type)

### Hi-Guard DK-5

**Features:**  
The agent is tack-free two to three hours after application and forms a dried coat after about one day. After coat formation, no stickiness or oil seepage will be observed and the antirust function will continue for more than six months outdoors. The agent is also appropriate for application on equipment with a complex structure because it penetrates into the minute concaves while the coat is formed.

**Application:**  
The agent achieves the antirust effect even under the harsh conditions of high humidity indoors or outdoors for a long period of time and is appropriate for export.

## Multipurpose antirust and lubricating agent

### Pelicoat 12

**Features:**  
This multipurpose agent features antirust, lubricating, cleaning, and penetration functions. The agent has outstanding water displacement capabilities and antirust effects on all metals. With its low surface tension and high permeating capacity, the agent serves as a lubricant for machines, equipment, and automobile components. It also prevents fingerprints and sweat from corroding the surface.

**Application:**  
Antirust and lubrication of metal products and loosening tightly fastened bolts and nuts

### Legato

**Features:**  
This agent is an outstanding lubricant due to the special oil-based additive. The coating offers excellent extreme-pressure performance and abrasion resistance so that the effect lasts for a long time. With its high permeating capacity, the agent penetrates rust and dirt to easily loosen rusted bolts and nuts. A thin coat with less stickiness covers the metal surface to produce an outstanding antirust effect. The agent also displaces water and demonstrates excellent antirust performance against salt water.

**Application:**  
Maintenance of machine tools and machines for specific purposes, servicing tools, lubricating small precision equipment, loosening bolts, nuts; screws; antirust; lubrication of metal products



### List of Products

Product name	Coating status	Antirust effective for *1	Easiness of removing *3	Application
Hi-Guard DK-5	Wax thick coating	Six months outdoors	○	Antirust for equipment
Pelicoat 12	Liquid thin coating	Six months	○	Multipurpose agent for antirust and lubrication functions. Suitable for DIY
Legato	Liquid thin coating	Six months	○	Multipurpose agent for antirust and lubrication functions with excellent extreme-pressure performance and abrasion resistance



**Note**

\*1. Duration of antirust effect varies depending on the conditions of use. The values in the table are rough indications when used indoors in an open condition (excluding Efflux).  
 \*2. The values of the Efflux series are the length of effectiveness under semi-sealed conditions when molds are closed.  
 \*3. It indicates the ease of removal with a general-purpose solution-type cleaning spray.

# Cleaning Agents



● GP Cleaner  
● GP Cleaner C-Y

## Mold cleaner (multipurpose agent for molds)

- GP Cleaner ▶ **Standard type**  
(An undiluted solution is also available.)
- GP Cleaner C-Y ▶ **Chemical attack-resistant type**  
(An undiluted solution is also available.)
- GP Cleaner C-Y2 ▶ **Chemical attack-resistant type**  
(An undiluted solution is also available.)

**Features:**  
Multipurpose cleaning agents remove grease, oil and dirt on molds for plastics or molded articles. The agents have almost no influence on molded articles and dry quickly.

## Ace Cleaner C3

**Features:**  
A cleaning agent suitable for the removal of antirust agents, grease, oil and release agents on molds for plastics. This is also for cleaning machines and is an outstanding degreasing agent.

**Application:**  
Degreasing and cleaning molds for plastics, machines and equipment



● Ace Cleaner C3

## Mold Cleaner (An undiluted solution is also available.)

**Features:**  
This cleaning agent will dissolve and remove resin from molds for plastics.  
\* Spray the agent thoroughly on the contaminated surface, leave for a while until it penetrates enough and then wipe off with a cloth or remove with a tool. Using the GP Cleaner is also effective.

**Application:**  
Cleaning molds for plastics



● MOLD Cleaner

## Cleaner for mold deposit (resin dissolution type)

### Depo Cleaner

**Features:**  
Spray the agent thoroughly onto the contaminated part of a mold surface and wait three to five minutes until the agent penetrates. While the surface is still wet, give preliminary shots. The agent may remain on the surface after use, so wash it off with a solvent like the GP Cleaner. The ideal temperature of the mold is between 40 and 80°C.

**Application:**  
For gas burns on molds for plastics and removal of deposits



● Depo Cleaner

## General cleaner (multipurpose agent for parts)

### Brake & Parts Cleaner Jumbo A

### Brake & Parts Cleaner C5 (An undiluted solution is also available)

**Features:**  
These are designed to cleanse resin or metal powder from a brake drum and lining instead of blowing the powder or resin off. The cleaner offers high spray pressure and excellent degreasing effects as an outstanding oil and grease remover.

**Application:**  
Degreasing and cleansing of general machine parts as well as brake drums, lining and disk pads



● Brake & Parts Cleaner Jumbo A  
● Brake & Parts Cleaner C5



● Parts Cleaner C7

### Parts Cleaner C7

**Features:**  
With the strong dissolving power, high spray pressure and degreasing effect, this can clean tough dirt that has accumulated for a long period of time.

**Application:**  
Cleansing parts when an engine is dismantled or machine parts with tough dirt

Product name	Cleansing effectiveness *1	Odor	Drying speed	Major application
GP Cleaner	7	Weak	Fast	Multipurpose
GP Cleaner C-Y	7	Wea	Fast	Multipurpose (chemical attack resistant)
GP Cleaner C-Y2	7	Weak	Fast	Multipurpose (chemical attack resistant)
Ace Cleaner C3	8	Middle	Middle	Degreasing and cleansing molds and other general parts
Mold Cleaner	-	Weak	Extremely slow	Cleansing plastic dirt on molds
Depo Cleaner	-	Strong	Extremely slow	Cleansing mold deposit and plastic dirt
Brake & Parts Cleaner C5	8	Middle	Fast	For brake and other general parts
Brake & Parts Cleaner Jumbo A	8	Middle	Fast	For brake and other general parts
Parts Cleaner C7 10	10	Strong	Slow	For general parts (powerful type)

\*1. Relative comparison with our products on a scale of one (weakest) to ten (strongest)



### Note

Washing agents need to be carefully chosen, depending on the materials of the target and the type of dirt, to maximize the effect.



# Lubricant and Others

For molding

## Lubricant for mold ejector pins



● Metal Protect Dry  
● Lubriflow

### ● Metal Protect Dry ▶▶ PTFE/thin coating and dry type (Service temperature: room temperature to 250°C)

**Features:**  
This thin-coating, dry-type lubricant forms a special lubricating PTFE coating over a metal surface. With the excellent heat resistance, adhesiveness and thinness, the lubricant is appropriate for use where dirt should be avoided.

**Application:**  
Maintenance of the mold ejector pins and sliding parts of a molding machine, the rotating and sliding parts of precision machines and equipment.

### ● Lubriflow ▶▶▶ PTFE/oil-based and enduring type (Service temperature: room temperature to 250°C)

**Features:**  
Ultra-fine PTFE particles form a smooth covering over a metal surface for outstanding lubricity and abrasive resistance. The lubricant also offers high permeating capacity and detergency and removes water from the surface with its excellent water displacement capability, which results in an antirust effect.

**Application:**  
Maintenance of the mold ejector pins and sliding parts of a molding machine, the rotating and sliding parts of precision machines and equipment.

### ● Bearlex FX-C ▶▶▶ PTFE/Grease type (Service temperature: -30 to 250°C)

**Features:**  
This fluorine lubricant is designed to minimize the influence on molded articles. The special lubricating coating has a wide service temperature range and allows application on a variety of surfaces. The thin coating is appropriate for use where dirt should be avoided and has a wide variety of uses as lubricant.

**Application:**  
The mold ejector pins and sliding parts of a molding machine and the rotating and sliding parts of precision machines



● Bearlex FX-C

### ● Grease Keeper White ▶ Urea/Grease type (Service temperature: -20 to 220°C)

**Features:**  
his special urea grease contains carefully selected thickeners and extreme-pressure additives to achieve high-level heat resistance and lubricity. The grease has a wide service temperature range, allows application on a variety of surfaces and reduces the frequency of greasing when servicing molds.

**Application:**  
Mold guide pins, sliding parts of a molding machine and parts where load bearing capacity and the prevention of seizure and adhesion and long product life are required.



● Grease Keeper White

## Lubricant for sliding surfaces and bearings

- MO Super Grease ▶▶▶ Grease type containing molybdenum  
(Service temperature: room temperature to over 400°C)
- MO Super Paste ▶▶▶ Synthetic oil-based type containing molybdenum  
(Service temperature: room temperature to over 400°C)
- Super Grease Spray No. 1 ▶▶ Standard grease type  
(Service temperature: -15 to 130°C)

**Features and application:**  
This spray grease contains extreme-pressure additives and lasts for a long period of time, demonstrating outstanding abrasion, heat and pressure resistance. The grease has a wide service temperature range and produces a long-term effect as lubricant, antirust and moisture barrier on rotating and sliding metal parts.



● Super Grease Spray No. 1

● MO Super Paste

● MO Super Grease

## ● Antistatic agent ● Inaguard

**Features:**  
This spray prevents static electricity on plastic molded articles, electronic parts, films and automobile parts. Simply with a light spray, it prevents accidents, declines in production efficiency and dirt caused by static electricity.

**Application:**  
Plastics in general, electronic parts, film and automobile parts  
\*May be applied to transparent resin.



● Inaguard

● Restore  
● Restore PP (Black)

## ● Surface treatment agent ● Restore and Restore PP (Black)

**Features:**  
This surface treatment agent is designed to diluter or improve the appearance of molded articles. A light application hides welds lines on a pear-skin finished and grained surface or diluters the surface.

**Application:**  
Restore for ABS, PS, and AS  
Restore PP for PP and PE

## Special release agent

### ● BN Spray (Service temperature: room temperature to 900°C)

**Features:**  
The agent contains boron nitride (BN) for excellent lubricity and release performance. With outstanding spreading capability and adhesiveness over a sliding surface and base material, the agent offers excellent lubricity in an environment of high loads.

**Application:**  
Can be used as a release agent for molding diamond tools, and lubricant and release agent for aluminum window frame molding, aluminum extruding machines and other conditions under high temperature.



● BN Spray

# Packing

Product name	Product property	Packing	*1	*2	*3	Page		
			PRTR Law applicability	Ordinance on Prevention of Organic Solvent Poisoning applicability	Classification of hazardous materials			
Curecoat	RM series	Aerosol	1 Case (2 x 12 x 420 ml cans)	Partially applicable	Partially applicable	1 to 2	3	
	UF series	Aerosol	1 Case (2 x 12 x 420 ml cans)	Partially applicable	Partially applicable	1 to 2	3	
	EP series	Aerosol	1 Case (2 x 12 x 420 ml cans)	Partially applicable	Partially applicable	1 to 2	3	
	QP series	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	1	3	
	ONS	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	1	3	
	Undiluted solution	Undiluted solution	12 kg	Partially applicable	Partially applicable	1 to 2	3	
Lushcoat	SEM series	Undiluted solution	16 kg	-	-	-	4	
	F series	Undiluted solution	16 kg	-	-	-	4	
	W series	Undiluted solution	16 kg	-	-	-	4	
	FW series	Undiluted solution	16 kg	-	-	-	4	
	FS series	Undiluted solution	16 kg	-	-	-	4	
Pelicoat	S	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	S3-5	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	S6	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	F	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	RF-1	Aerosol	1 Case (24 x 420 ml cans)	-	●	1	5	
	FF	Aerosol	1 Case (24 x 420 ml cans)	-	●	1	5	
	PV	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	α	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	5	
	A	Aerosol	1 Case (24 x 420 ml cans)	-	-	D	5	
	BX-2	Aerosol	1 Case (24 x 420 ml cans)	-	-	D	5	
	Z	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	6	
	K	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	6	
	KP	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	6	
	GT-1	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	6	
	GT-3	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	6	
AL-H	Undiluted solution	20 liters	●	-	1	-		
SH-5H	Undiluted solution	12 kg	●	-	1	-		
Efflux	C-Y	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	7	
	C-Y colored	Aerosol	1 Case (24 x 420 ml cans)	-	-	1	7	
	F	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	1	7	
		Undiluted solution	20 liters	-	-	1	7	
	Colored	Aerosol	1 Case (2 x 12 x 420 ml cans)	●	-	1	7	
	Sabicro	Aerosol	1 Case (2 x 12 x 420 ml cans)	●	-	1	7	
	Hi-Guard	DK-5	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	-	1	8
Pelicoat	12	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	2	8	
Rakutoreru	Aerosol	1 Case (2 x 12 x 420 ml cans)	●	-	1	7		
Legato	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	-	2	8		
ACE cleaner	C3	Aerosol	1 Case (4 x 6 x 420 ml cans)	●	-	1	9	
	Brake & Parts Cleaner C5	Aerosol	1 Case (24 x 500 ml cans)	●	-	1	10	
		Undiluted solution	20 liters	●	-	1	10	
	Brake & Parts Cleaner Jumbo A	Aerosol	1 Case (2 x 12 x 820 ml cans)	-	-	1	10	
		Aerosol	1 Case (24 x 420 ml cans)	-	-	1	9	
	GP Cleaner	Undiluted solution	20 liters	-	-	1	9	
		Aerosol	1 Case (24 x 500 ml cans)	-	-	1	9	
	GP Cleaner C-Y	Undiluted solution	18 liters	-	-	1	9	
		Aerosol	1 Case (24 x 500 ml cans)	-	-	1	9	
	GP Cleaner C-Y2	Undiluted solution	18 liters	-	-	1	9	
Aerosol		1 Case (4 x 6 x 300 ml cans)	-	●	3	9		
Mold Cleaner	Undiluted solution	4 kg and 18 kg	●	●	3	9		
	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	2	9		
Depo Cleaner	Aerosol	1 Case (2 x 12 x 420 ml cans)	-	-	1	10		
Parts Cleaner	C7	Aerosol	1 Case (2 x 12 x 500 ml cans)	●	-	1	10	
BN Spray	Aerosol	1 Case (4 x 6 x 420 ml cans)	●	-	1	12		
	MO Super	Grease	1 Case (4 x 6 x 420 ml cans)	-	-	-	12	
		Paste	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	-	-	12
	Inaguard	Aerosol	1 Case (4 x 12 x 420 ml cans)	-	-	A	12	
	Grease Keeper	White	Grease	500 g and 2.5 kg	-	-	-	11
	Super Grease Spray No. 1	Aerosol	1 Case (2 x 12 x 420 ml cans)	●	●	-	12	
	Bearflex	FX-C	Grease	1 kg	-	-	11	
	Metal Protect	DRY	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	●	1	11
	Lubrifirow	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	●	1	11	
	Restore	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	-	1	12	
Restore	PP (Black)	Aerosol	1 Case (4 x 6 x 420 ml cans)	-	-	1	12	

\*1: ● indicates that the PRTR Law is applicable.  
 \*2: ● indicates that the Ordinance on Prevention of Organic Solvent Poisoning is applicable.  
 \*3: Classification of hazardous materials

1.....Class 4 Petroleum No. 1  
 2.....Class 4 Petroleum No. 2  
 3.....Class 4 Petroleum No. 3  
 4.....Class 4 Petroleum No. 4  
 A.....Alcohol  
 D.....Designated flammable material

# Laws, Regulations and Safety

## PRTR:

Pollutant Release and Transfer Registers (PRTRs) are systems to collect and disseminate data on how many toxic chemicals from which source are released into the environment or disposed of as waste. The system tells us the type and volume of chemical substances released into the environment.

## Ordinance on Prevention of Organic Solvent Poisoning:

Organic solvents are volatile and can be taken into the human body by respiration. The solvents are also absorbed through the skin. If large volumes of such solvents are absorbed, toxic symptoms or even death may result. To prevent accidental poisoning, the Ordinance on Prevention of Organic Solvent Poisoning was established under the Industrial Safety and Health Act. Substances that need special attention out of all organic solvents are listed and classified into classes 1 to 3.

## RoHS

Restriction of Hazardous Substances is a directive restricting the use of specific hazardous materials in the production of electric and electronic equipment. The directive is designed to ensure compliance with the law governing electric and electronic equipment and minimize the hazards to the environment and human health at every stage from production to disposal. The directive restricts the use of the following six substances: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ether (PBDE).

\* No RoHS-restricted substance is used in our products intentionally.

## PFOS and PFOA

Around 1990, perfluorochemicals (PFC), which were thought to be safe, were found to contaminate human and animal blood. Based on this discovery, the US Environmental Protection Agency prohibited the use of perfluorooctane sulfonates (PFOS) out of all PFCs in 2000, which had been used in stain and waterproof coatings. It also prohibited the use of perfluorooctanoic acid (PFOA) for the same reason.

\*No PFOS and PFOA are used in our products intentionally.

## GHS

The United Nations recommendation is to use the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The objective is to provide data of the kind and degree of hazard and toxicity for the chemical substance in the form of a label that helps understanding or a safety data sheet according to a globally unified rule.



Combustible and inflammable



Harmful to health



Harmful to health



Harmful to aqueous environment

## Instructions for the Use of Aerosol Cans

(Read carefully before use.)

- \* Misuse may cause poisoning, fire, and explosion of cans. Read carefully and understand the cautions and MSDS before use.
- \* It is harmful to health to inhale the sprayed agent. Ventilate the room well when in use.
- \* If you inhaled large volumes of the agent or if you feel sick, move to fresh air. If you do not recover, consult a physician.
- \* Be careful when spraying and prevent the agent from contacting the skin or face. In the event of skin contact, wash off with soap. If the agent gets into the mouth and eyes, rinse thoroughly with water.
- \* Do not leave the product in places with a temperature above 40°C or exposed to direct sunlight because doing so may cause an explosion or wet conditions may cause rust.
- \* Before disposing of a can, empty by pushing the spray button outdoors away from open flames until the spray sound ceases. Outsource the disposal of the emptied cans to specialist waste treatment services approved by the prefectural governor.